Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/SB/424 (12-11)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	Jack Pryor	Nonprovisional Application Number (if known):	
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i), the prioritized examination fee set forth in 37 CFR 1.17(c), and if not already paid, the publication fee set forth in 37 CFR 1.18(d) have been filed with the request. The basic filing fee, search fee, examination fee, and any required excess claims and application size fees are filed with the request or have been already been paid.

2. The application contains or is amended to contain no more than four independent claims and no more than thirty total claims, and no multiple dependent claims.

3. The applicable box is checked below:

I. ☑ **Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed oath or declaration under 37 CFR 1.63 is filed with the application.

II. ☐ **Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Rose M. Thiessen/	Date November 21, 2019
Name (Print/Typed) Rose M. Thiessen	Practitioner Registration Number 40202

Note: *Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below*.*

☑ *Total of 1 forms are submitted.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DEXCOM.053C22
	Application Number	
Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jack		Pryor	

Residence Information (Select One) ● US Residency Non US Residency Active US Military Service

City	State/Province	Country of Residence
Ladera Ranch	CA	US

Mailing Address of Inventor:

Address 1	c/o DexCom, Inc.
Address 2	6340 Sequence Drive

City	State/Province	Postal Code	Country
San Diego	CA	92121	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Apurv	Ullas	Kamath	

Residence Information (Select One) ◉ US Residency Non US Residency Active US Military Service

City	State/Province	Country of Residence
San Diego	CA	US

Mailing Address of Inventor:

Address 1	c/o DexCom, Inc.
Address 2	6340 Sequence Drive

City	State/Province	Postal Code	Country
San Diego	CA	92121	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Paul	V.	Goode	Jr.

Residence Information (Select One) ◉ US Residency Non US Residency Active US Military Service

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DEXCOM.053C22
	Application Number	
Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION	

City	Round Rock	State/Province	TX	Country of Residence	US

Mailing Address of Inventor:

Address 1	c/o DexCom, Inc.		
Address 2	6340 Sequence Drive		
City	San Diego	State/Province	CA
Postal Code	92121	Country	US

Inventor 4 — Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	James	H.	Brauker	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Addison	State/Province	MI	Country of Residence	US

Mailing Address of Inventor:

Address 1	c/o DexCom, Inc.		
Address 2	6340 Sequence Drive		
City	San Diego	State/Province	CA
Postal Code	92121	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	68851		
Email Address	efiling@knobbe.com	Add Email	Remove Email

Application Information:

Title of the Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION		
Attorney Docket Number	DEXCOM.053C22	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	48	Suggested Figure for Publication (if any)	

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	Application Number	
Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	● Customer Number	US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	68851		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	16/457628	2019-06-28

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DEXCOM.053C22
	Application Number	
Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION	

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16/457628	Continuation of	15/787595	2017-10-18

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15/787595	Continuation of	15/065623	2016-03-09	9918668	2018-03-20

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15/065623	Continuation of	13/607162	2012-09-07	9314196	2016-04-19

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13/607162	Continuation of	12/683755	2010-01-07	8611978	2013-12-17

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12/683755	Continuation of	11/373628	2006-03-09	7920906	2011-04-05

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
11/373628	Claims benefit of provisional	60/660743	2005-03-10

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DEXCOM.053C22
	Application Number	
Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION	

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DEXCOM.053C22
	Application Number	
Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DEXCOM.053C22
	Application Number	
Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 — Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	DexCom, Inc.		
Mailing Address Information For Applicant:			
Address 1	6340 Sequence Drive		
Address 2			
City	San Diego	**State/Province**	CA
Country	US	Postal Code	92121
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DEXCOM.053C22
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Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒

Organization Name	DexCom, Inc.

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1	6340 Sequence Drive		
Address 2			
City	San Diego	**State/Province**	CA
Country i	US	Postal Code	92121
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Rose M. Thiessen/			Date (YYYY-MM-DD)	2019-11-21
First Name	Rose	Last Name	Thiessen	Registration Number	40202

Additional Signature may be generated within this form by selecting the Add button. Add

PTO/AIA/14 (11-15)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DEXCOM.053C22
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This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 15/065623

filed on March 9, 2016

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Apurv Ullas Kamath Date (Optional): 8/26/16

Signature: A. K. H.

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ☒ United States application or PCT international application number 15/065623 filed on March 9, 2016.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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LEGAL NAME OF INVENTOR

Inventor: Paul V. Goode, Jr. Date (Optional): 19 OCT 18

Signature: Paul V. Goode

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

As the below named inventor, I hereby declare that:

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☐ The attached application, or

☒ United States application or PCT international application number 15/065623

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The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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LEGAL NAME OF INVENTOR

Inventor: James H. Brauker Date (Optional): _____

Signature: _____

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Doc code: Oath
Document Description: Oath or declaration filed

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SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

This statement is directed to:

☐ The attached application,

OR

☒ United States application or PCT international application number 15/065623 filed on 2016-03-09

LEGAL NAME of inventor to whom this substitute statement applies:

(*E.g.*, Given Name (first and middle (if any)) and Family Name or Surname)

Jack Pryor

Residence (except for a deceased or legally incapacitated inventor):

City	State	Country
Ladera Ranch	CA	US

Mailing Address (except for a deceased or legally incapacitated inventor):

31 Danbury

City	State	Zip	Country
Ladera Ranch	CA	92694	US

I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Relationship to the inventor to whom this substitute statement applies:

- ☐ Legal Representative (for deceased or legally incapacitated inventor only),
- ☒ Assignee,
- ☐ Person to whom the inventor is under an obligation to assign,
- ☐ Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or
- ☐ Joint Inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased,
- ☐ Inventor is under legal incapacity,
- ☒ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Laura Johnson

Date (Optional): 10/3/16

Signature: Laura Johnson

APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: DexCom, Inc.

Title of Person Executing This Substitute Statement: Vice President of Intellectual Property

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City Poway | State CA | Country US

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

6340 Sequence Drive

City San Diego | State CA | Zip 92121 | Country US

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

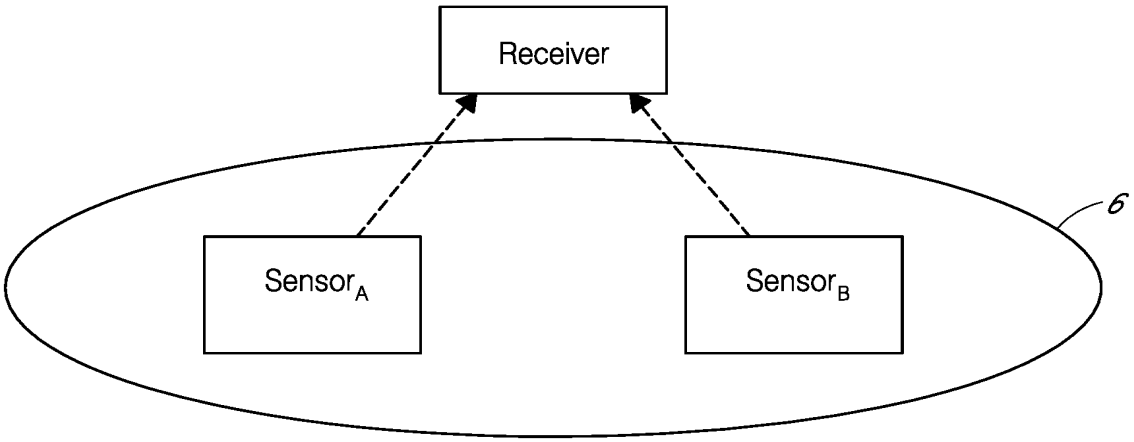

Receiver
Sensor A
Sensor B
6

FIG. 1A

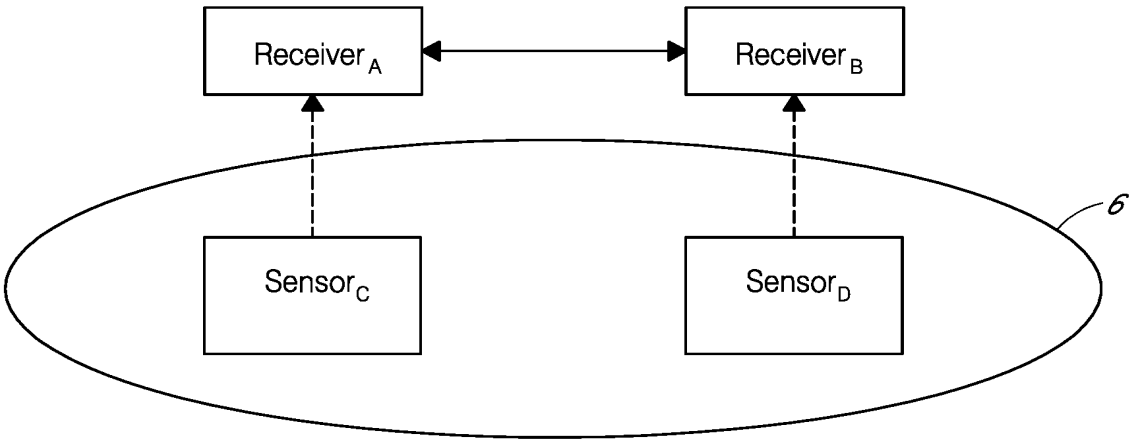

Receiver A
Receiver B
Sensor C
Sensor D
6

FIG. 1B

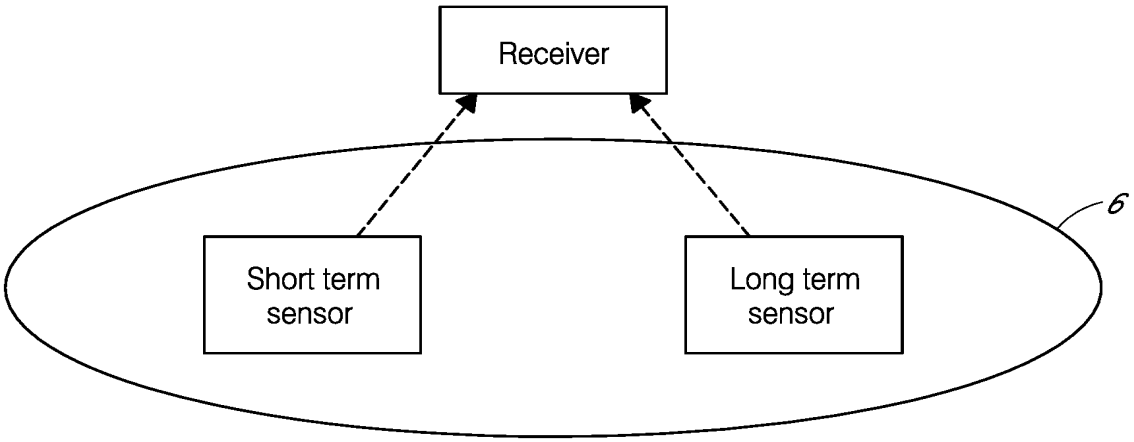

Receiver
Short term sensor
Long term sensor
6

FIG. 1C

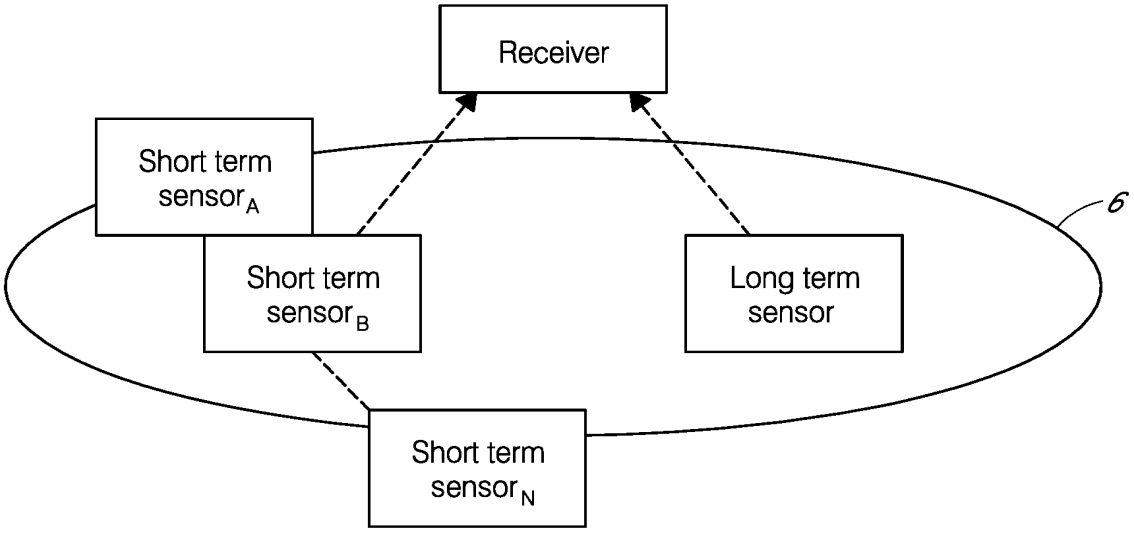

Receiver
Short term sensor$_A$
Short term sensor$_B$
Long term sensor
Short term sensor$_N$
6

FIG. 1D

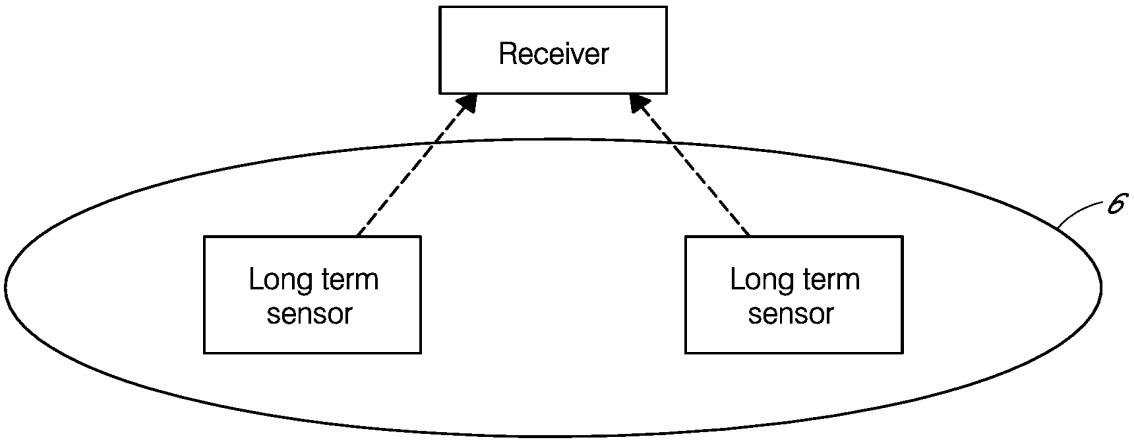

Receiver
Long term sensor
Long term sensor
6

FIG. 1E

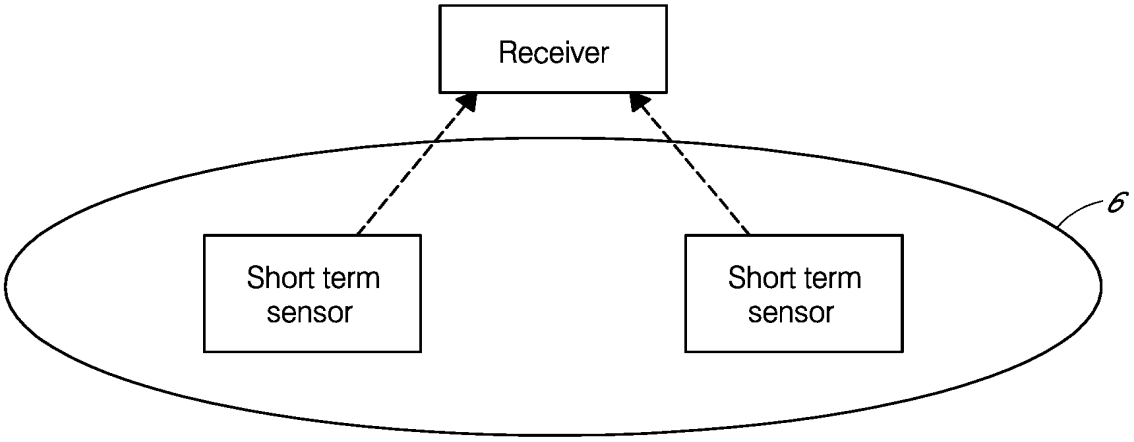

Receiver
Short term sensor
Short term sensor
6

FIG. 1F

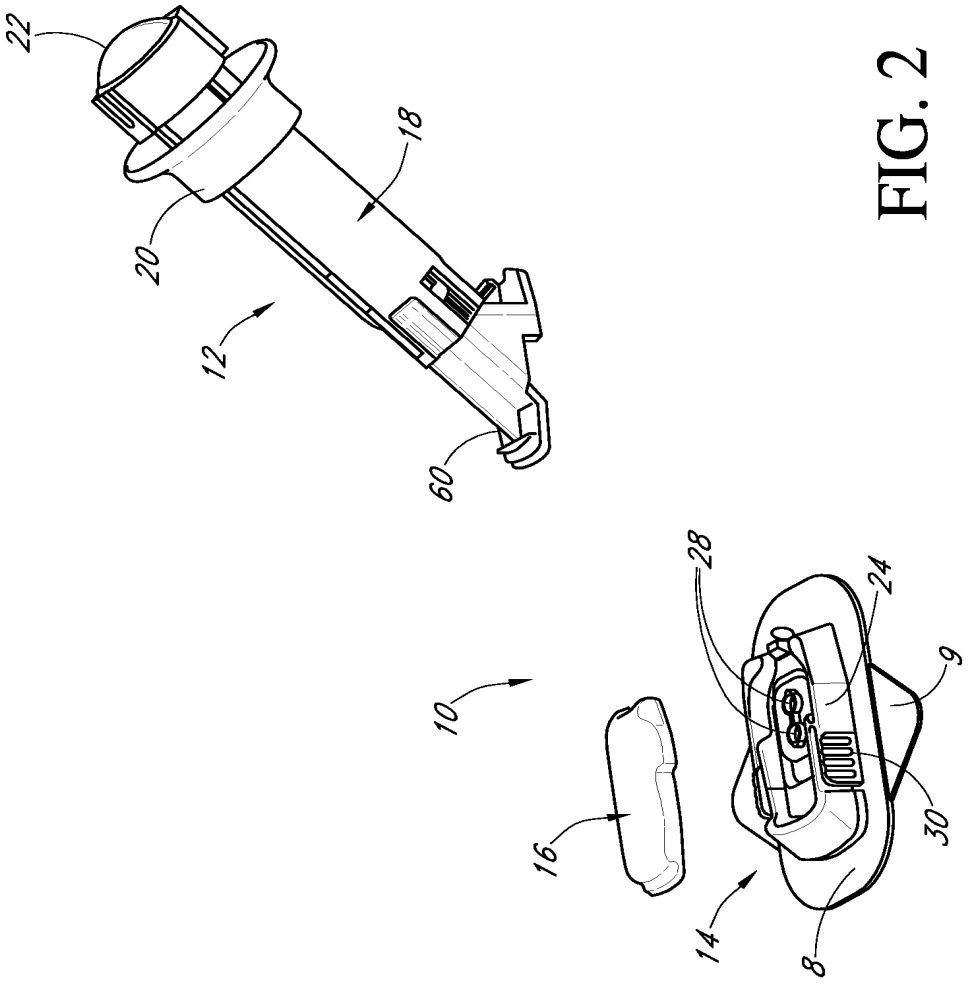


FIG. 2

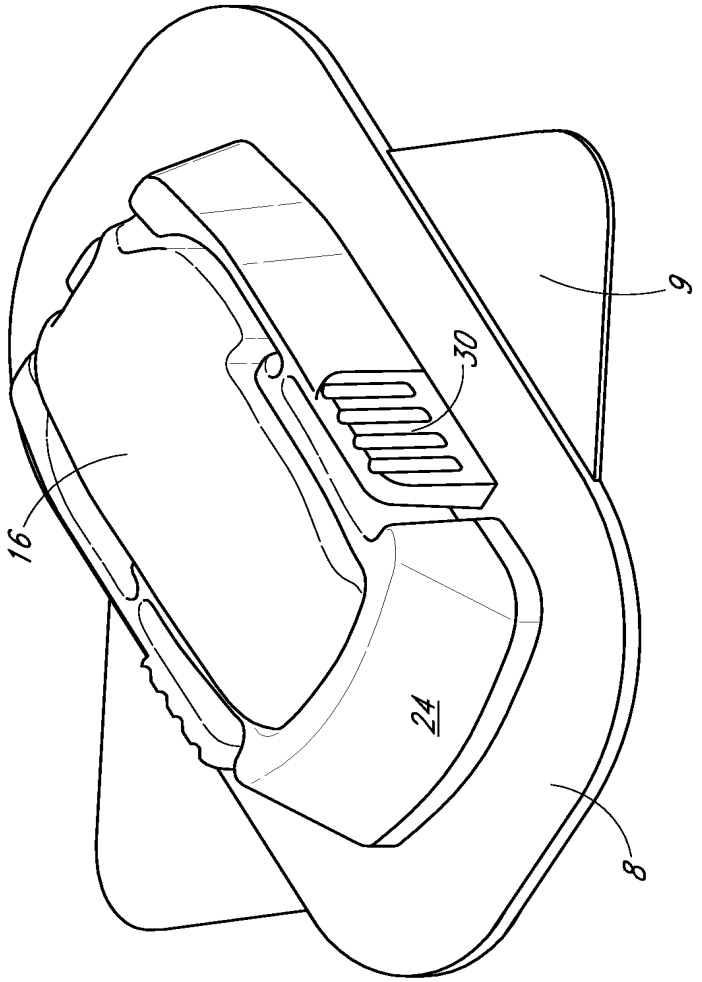


FIG. 3

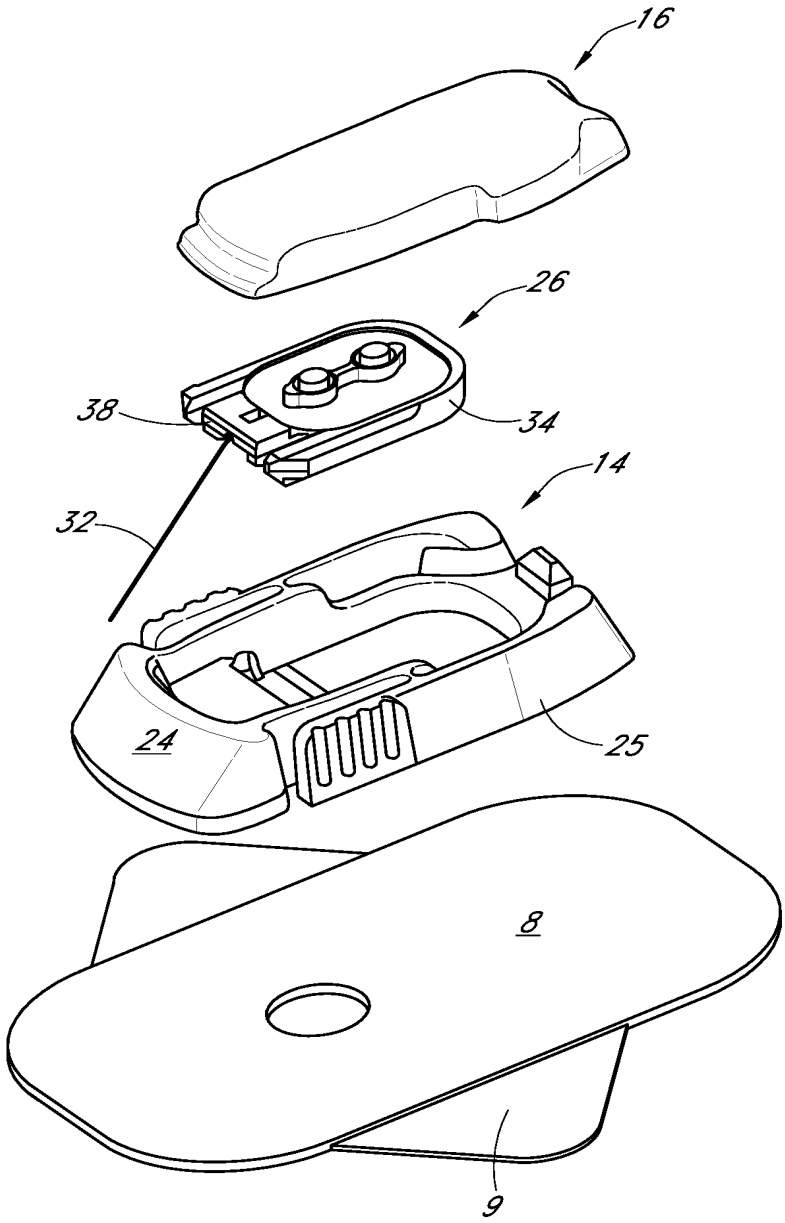


FIG. 4

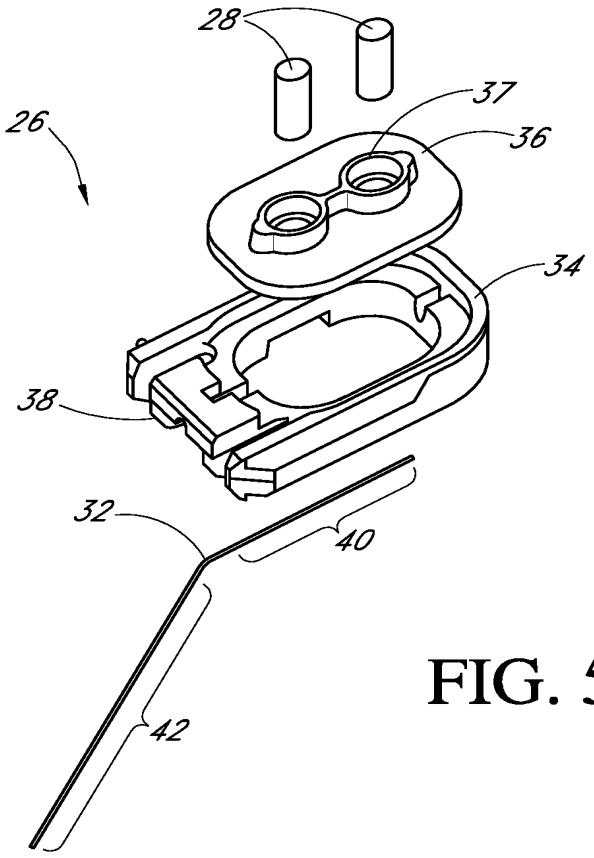


FIG. 5A

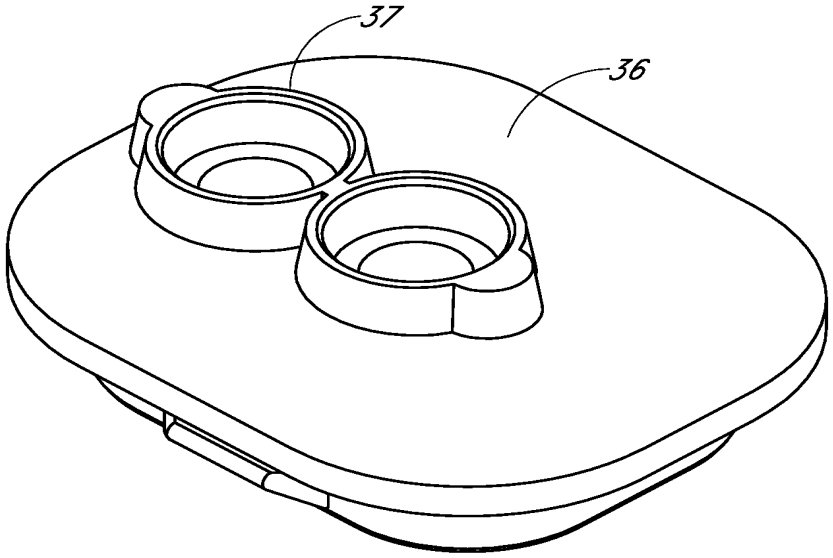


FIG. 5B

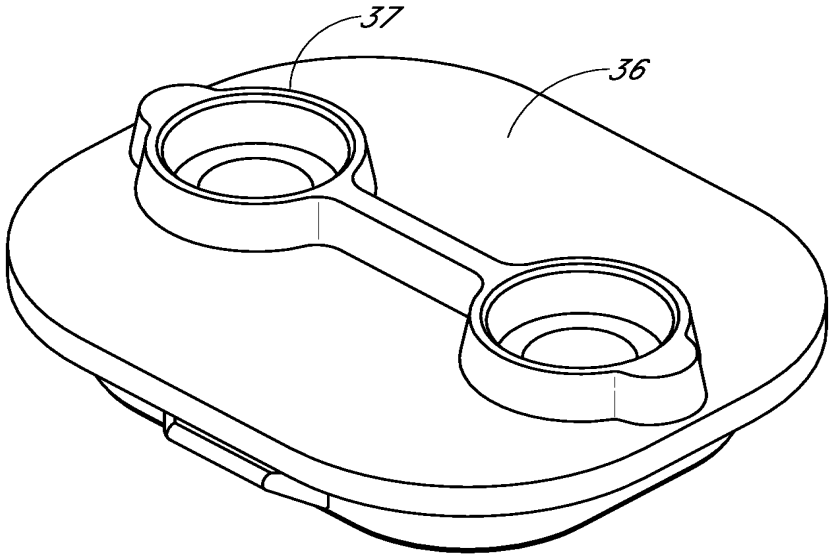


FIG. 5C

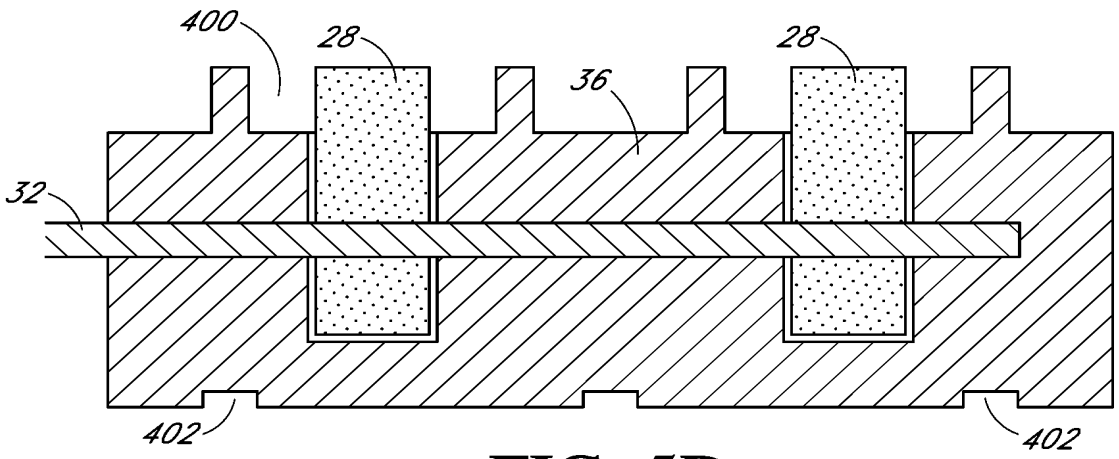


FIG. 5D

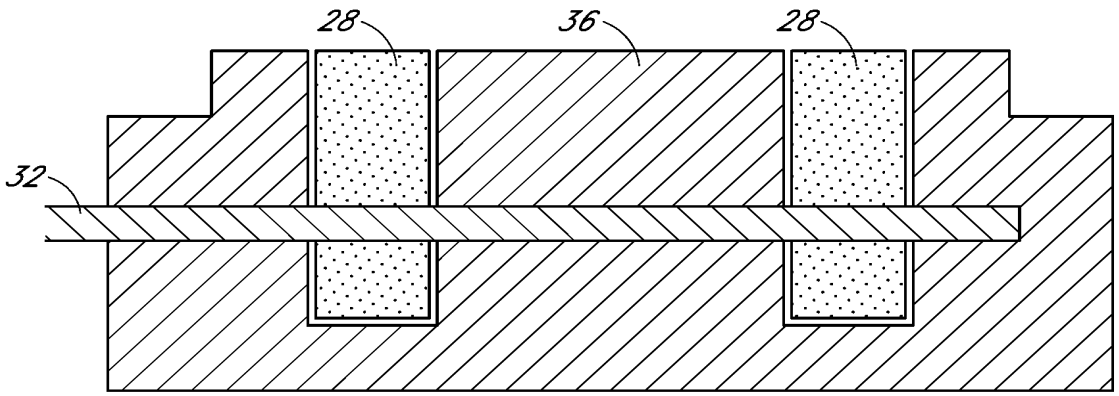


FIG. 5E

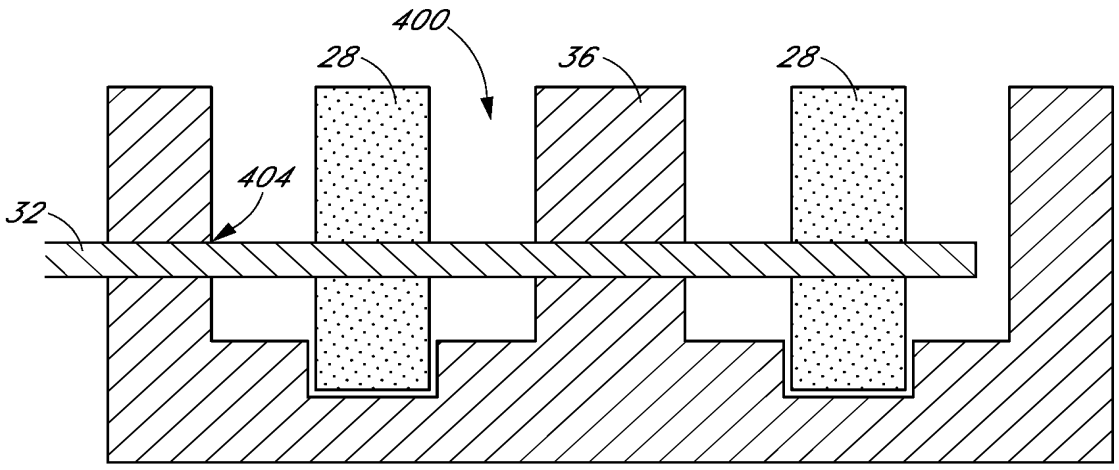


FIG. 5F

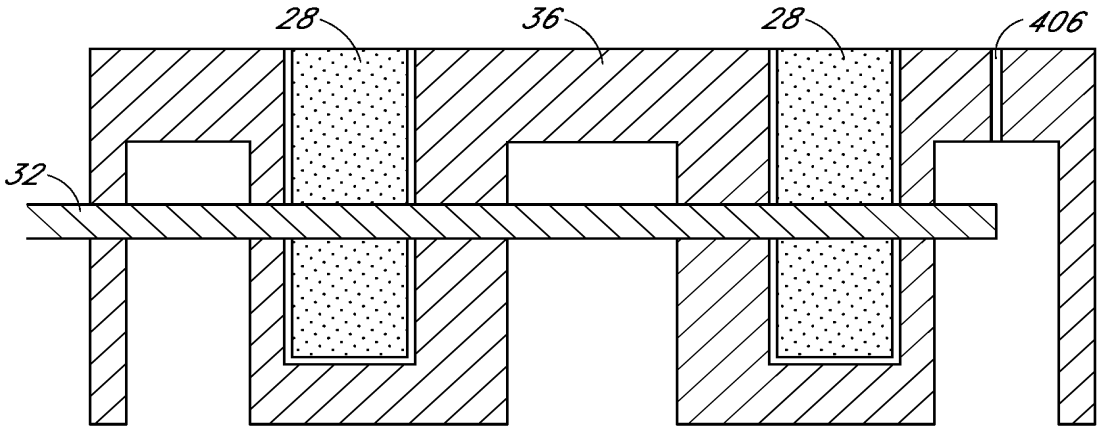


FIG. 5G

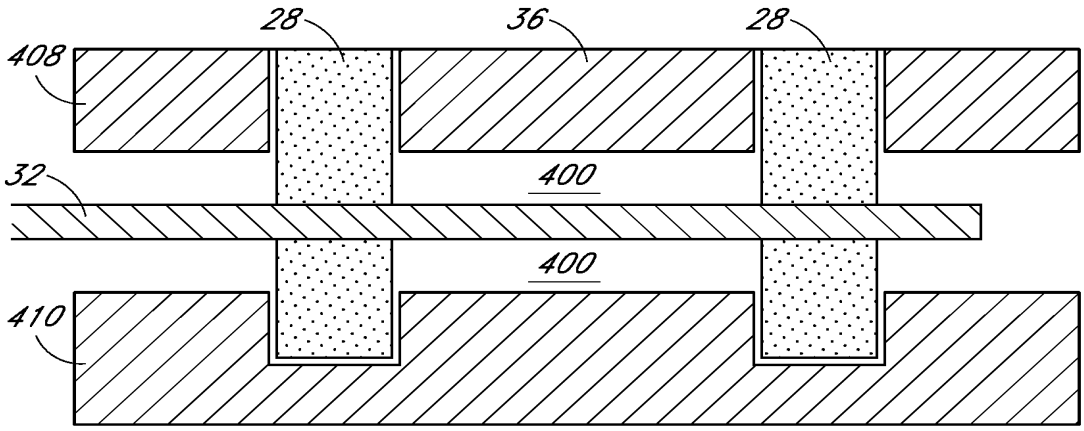


FIG. 5H

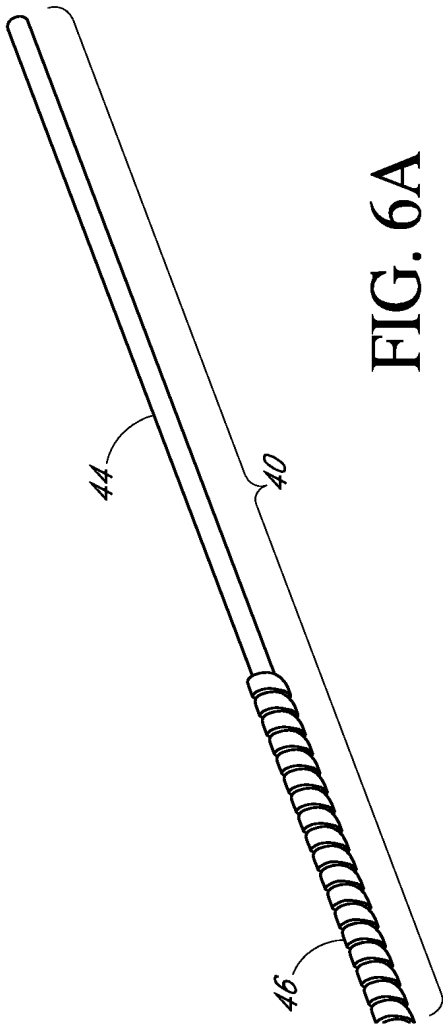


FIG. 6A

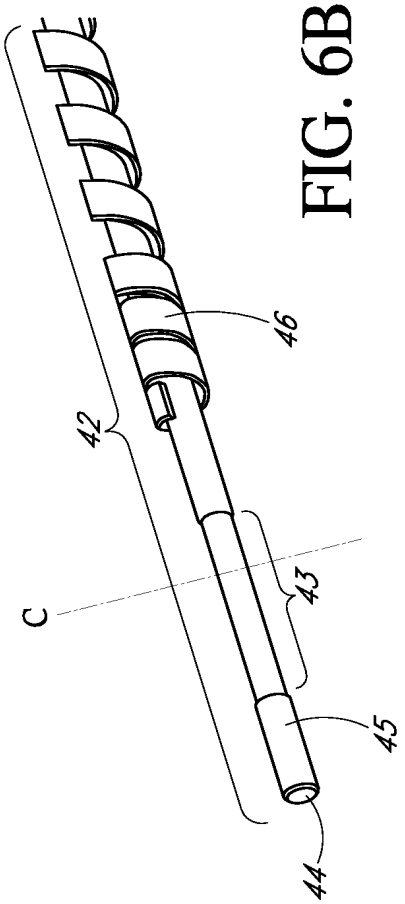


FIG. 6B

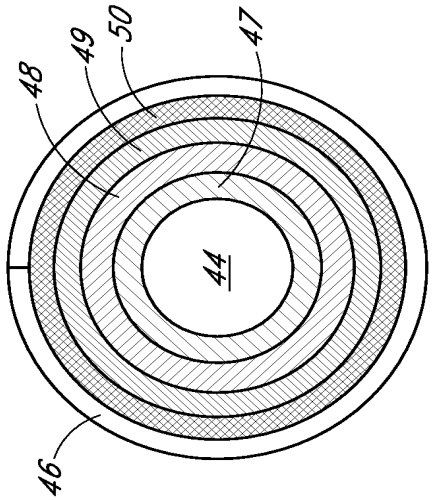


FIG. 6C

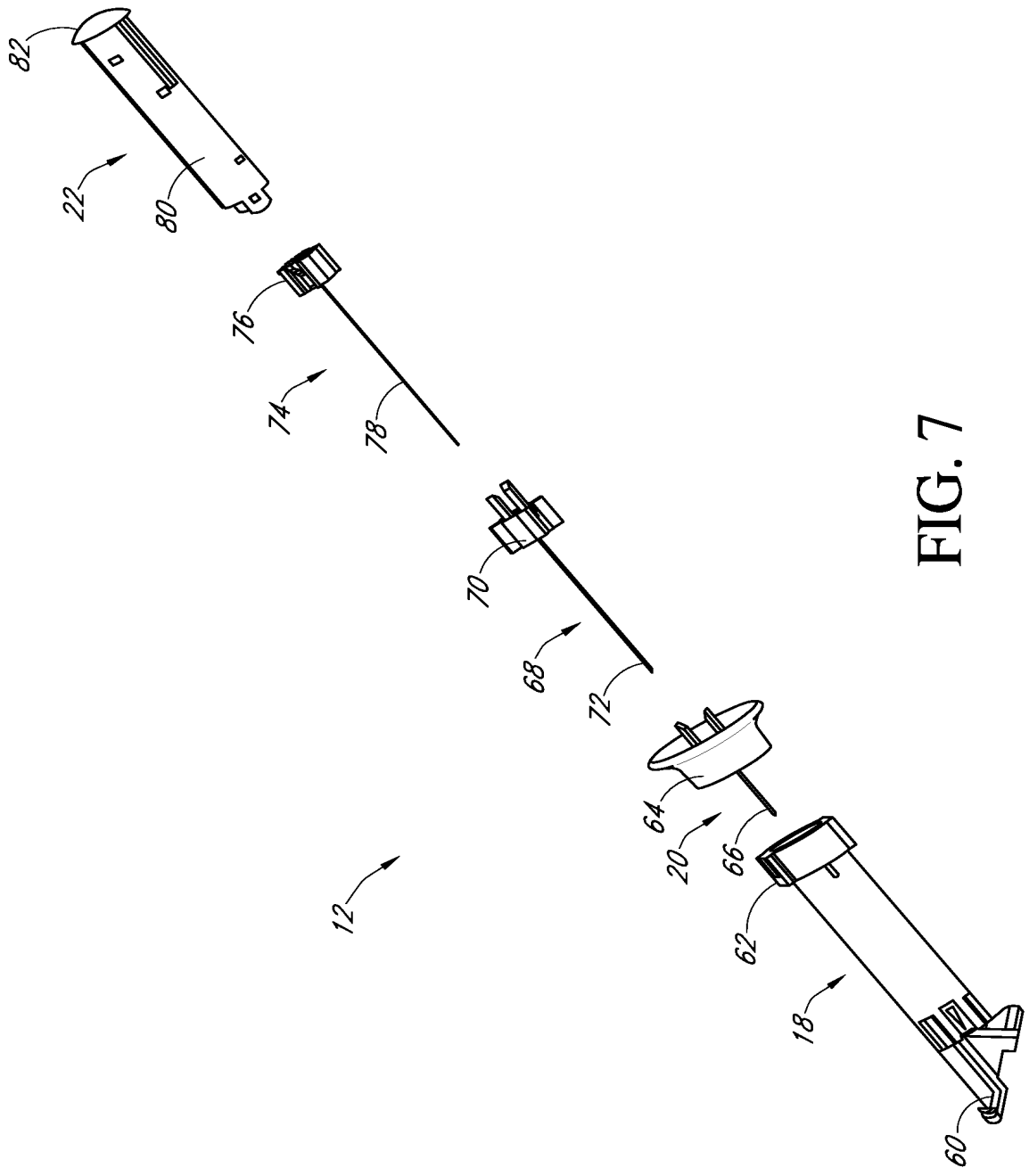


FIG. 7

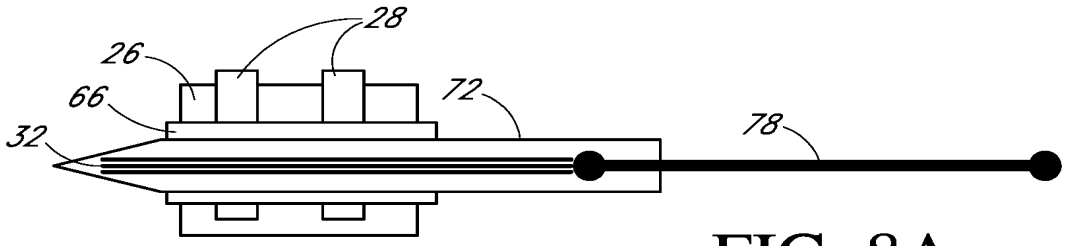


FIG. 8A

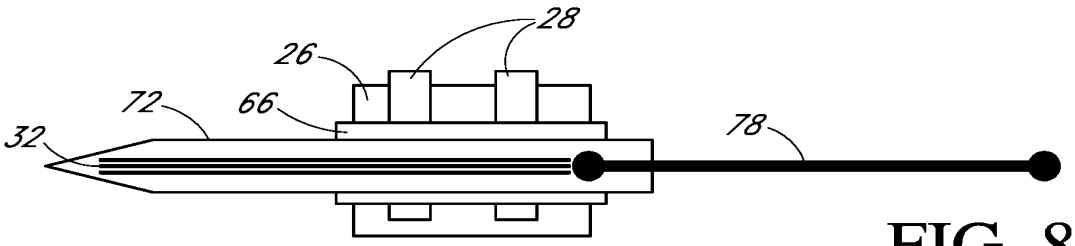


FIG. 8B

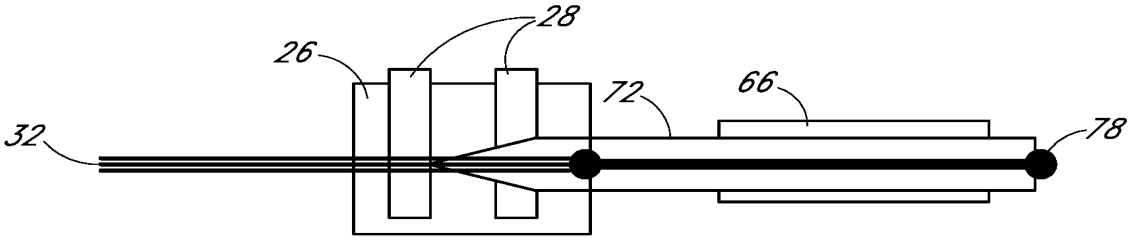


FIG. 8C

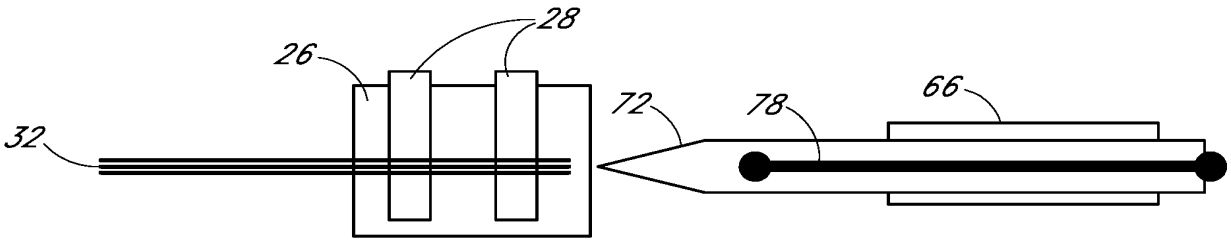


FIG. 8D

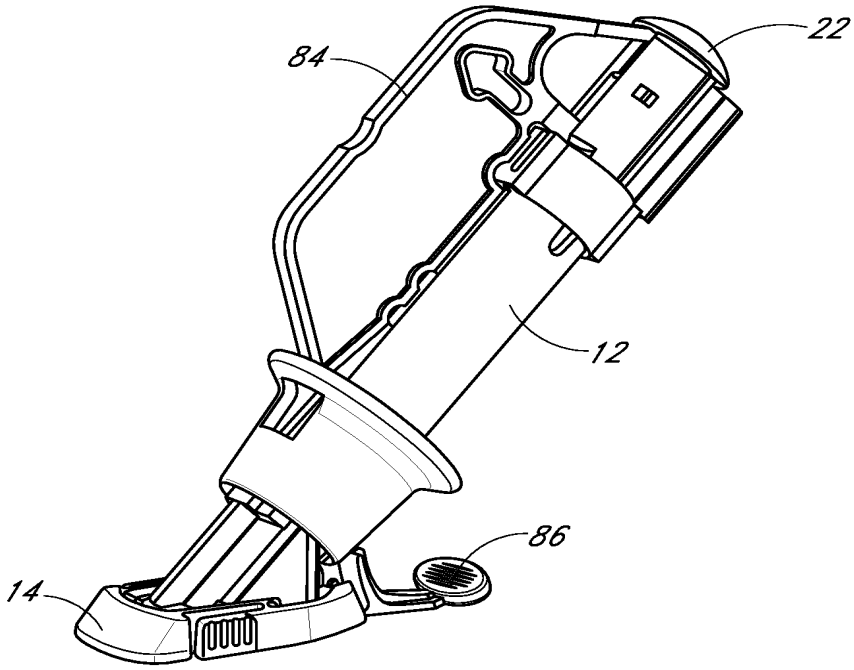


FIG. 9A

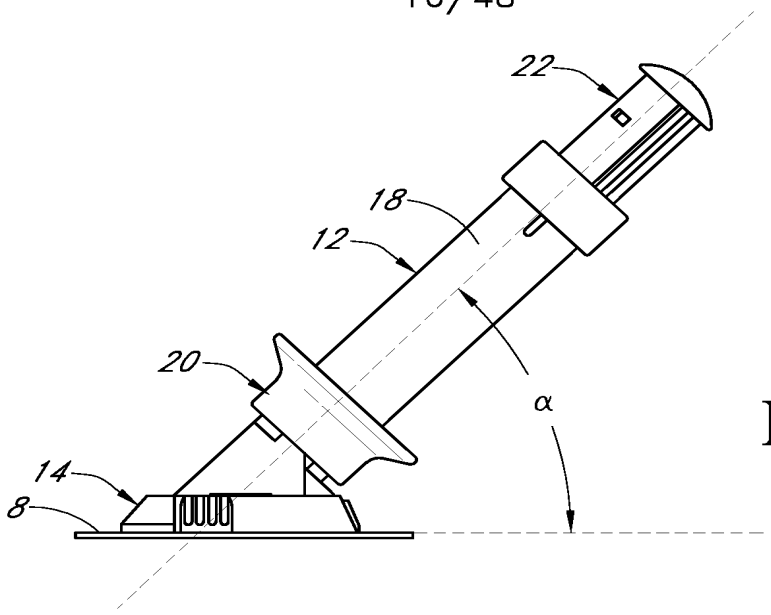


FIG. 9B

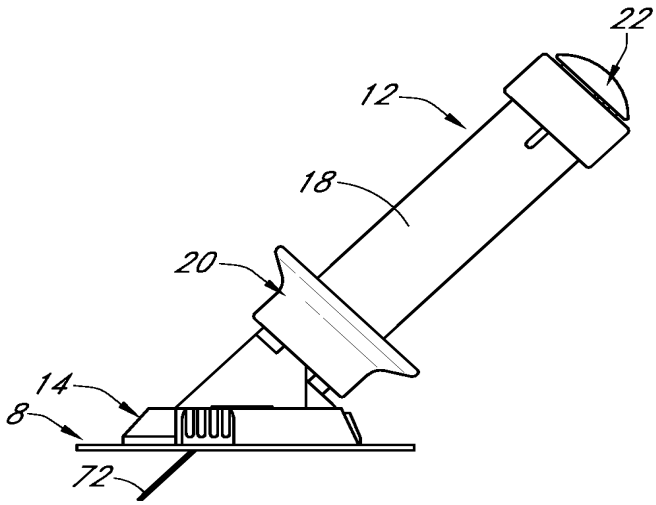


FIG. 9C

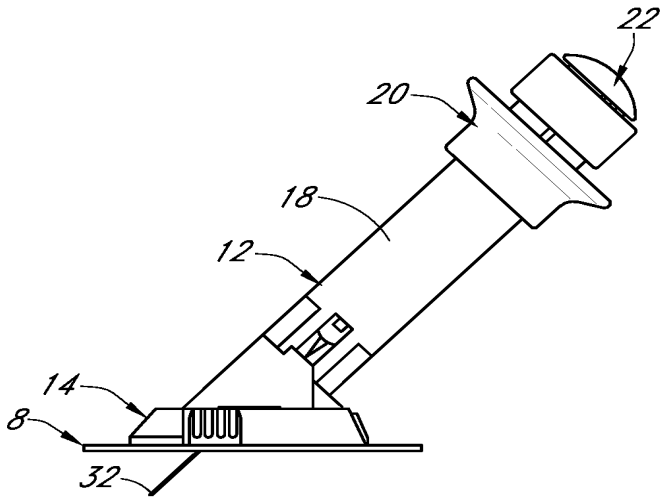


FIG. 9D

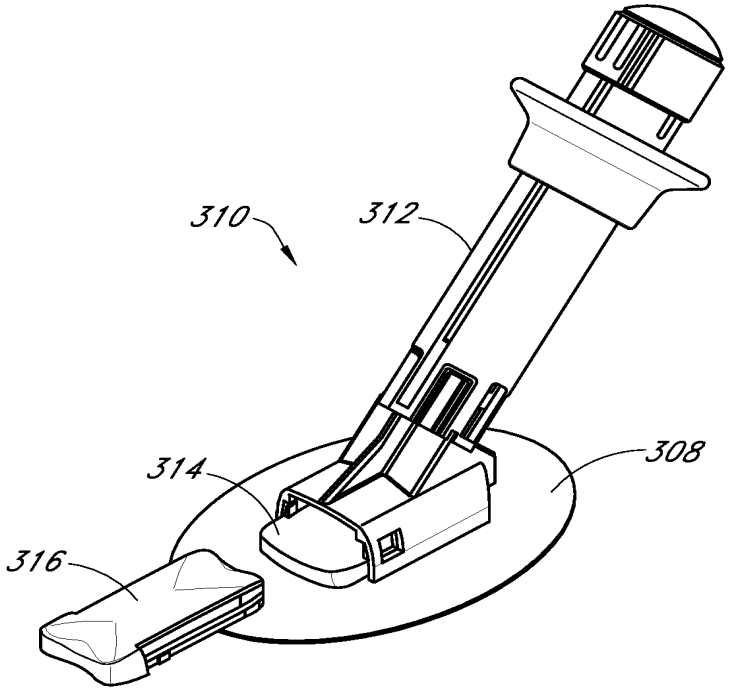


FIG. 9E

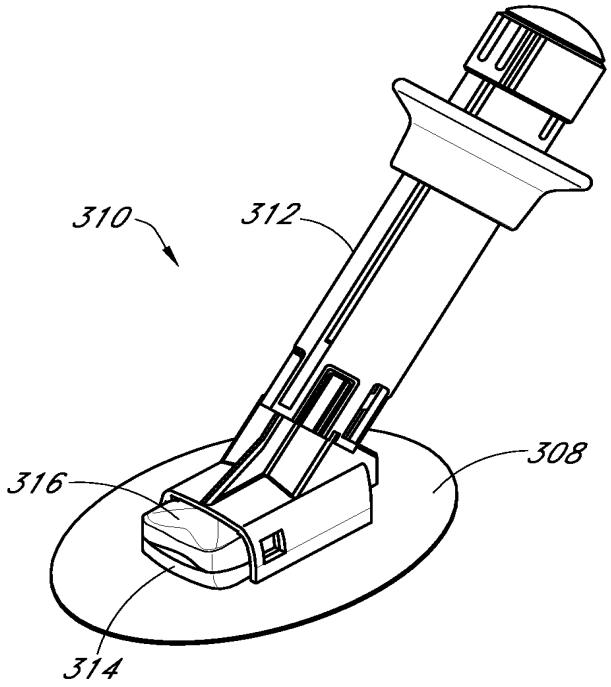


FIG. 9F

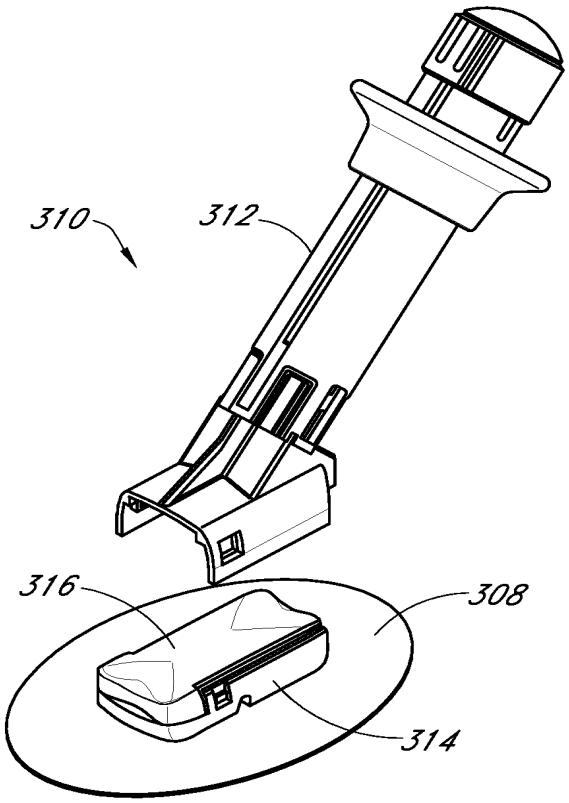


FIG. 9G

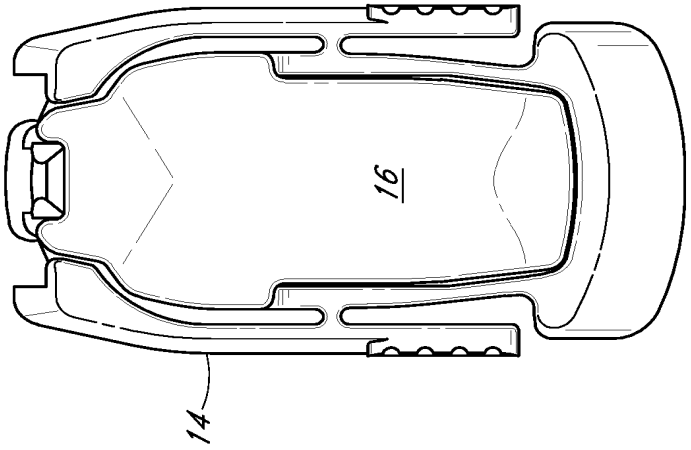


FIG. 9I

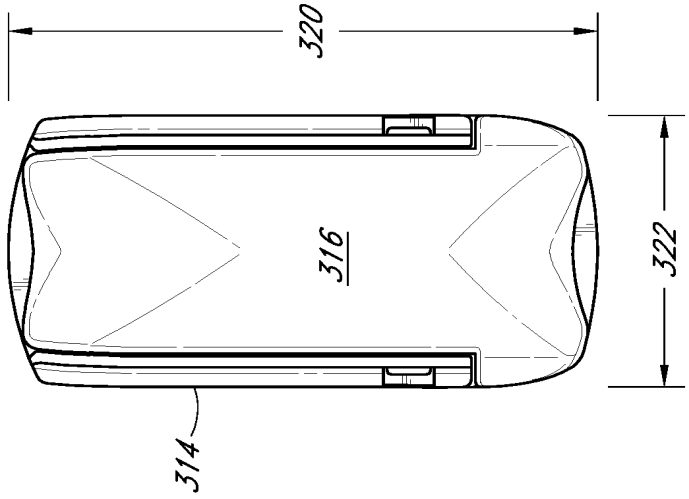


FIG. 9H

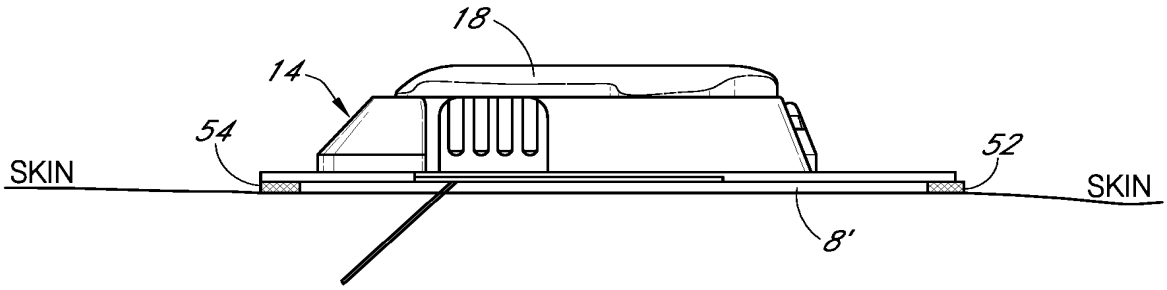


FIG. 10A

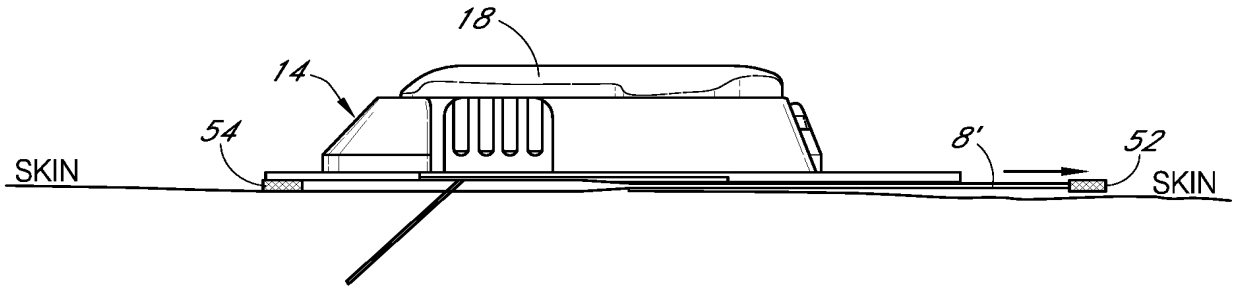


FIG. 10B

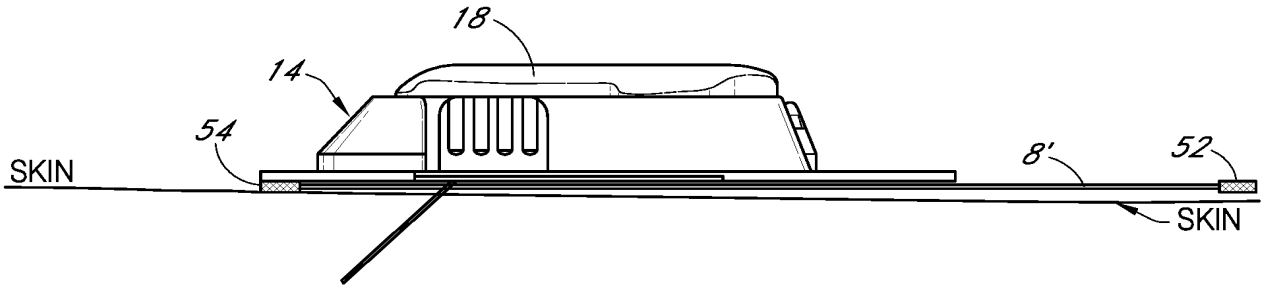


FIG. 10C

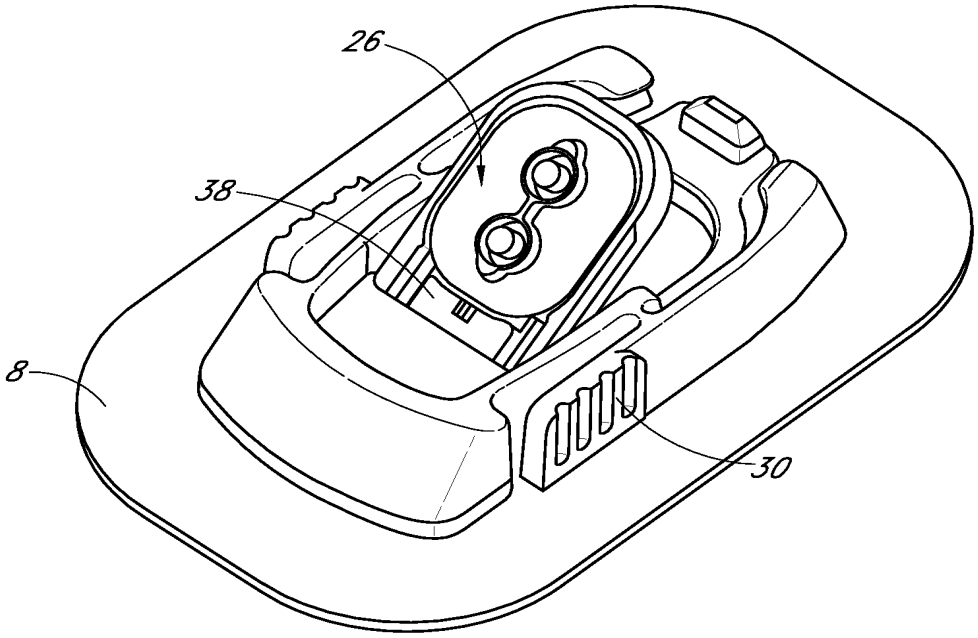


FIG. 11A

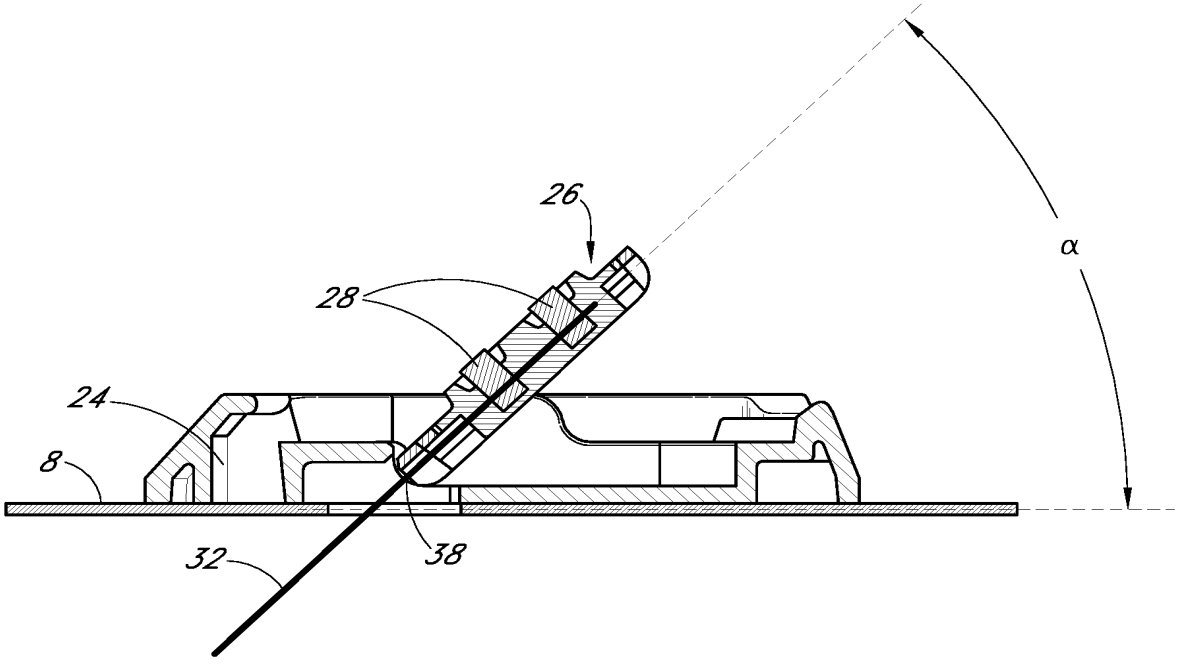


FIG. 11B

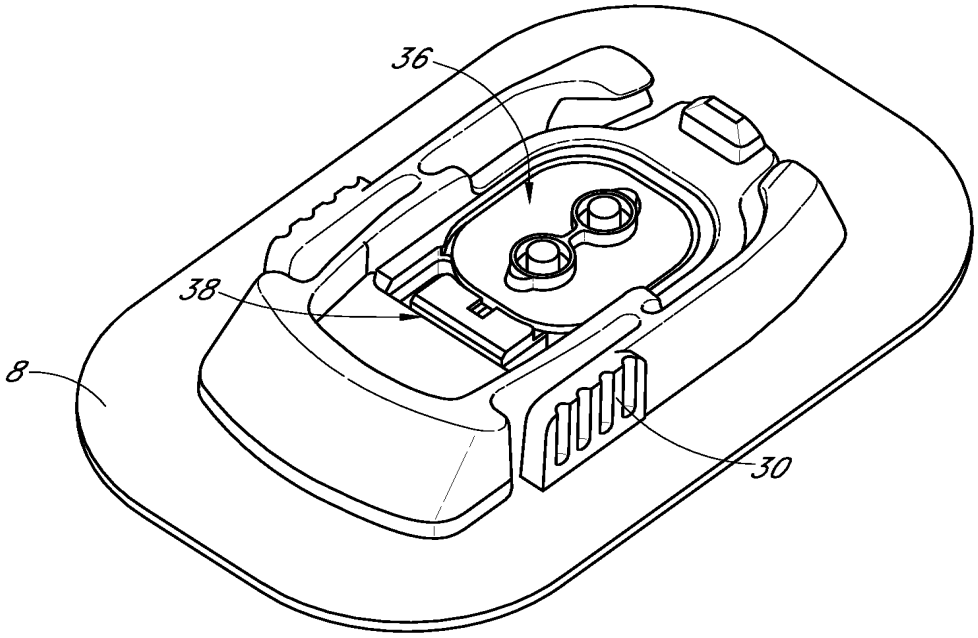


FIG. 12A

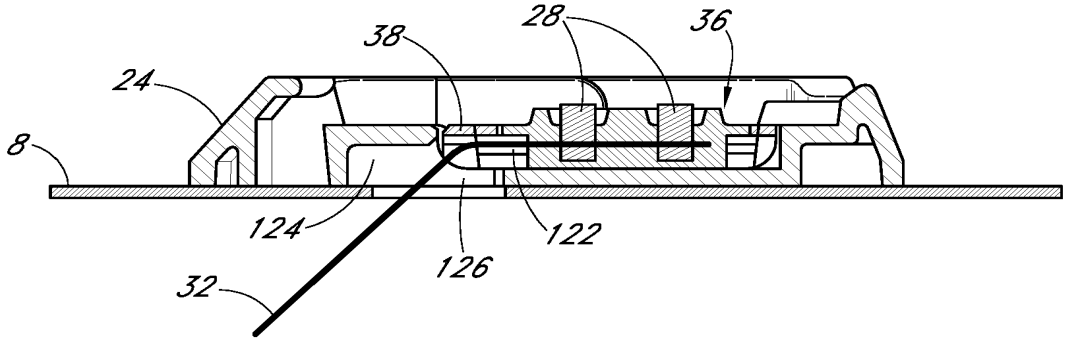


FIG. 12B

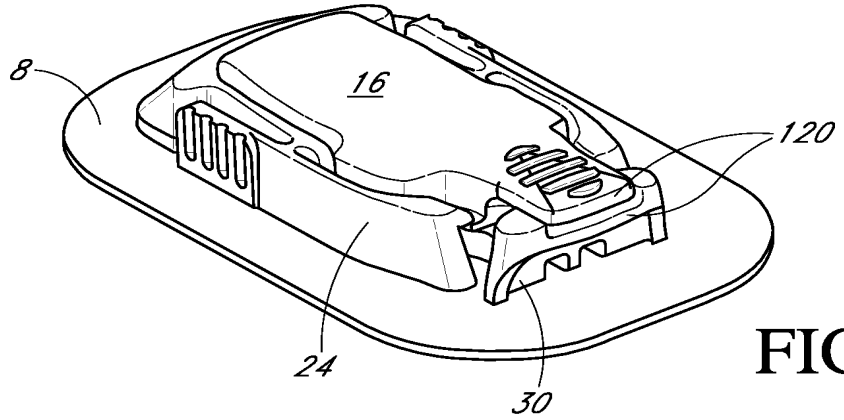


FIG. 13A

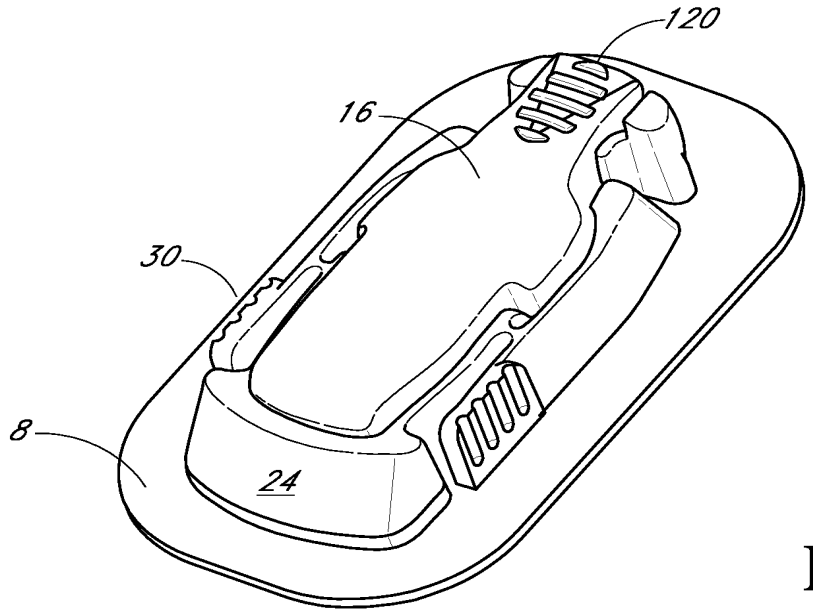


FIG. 13B

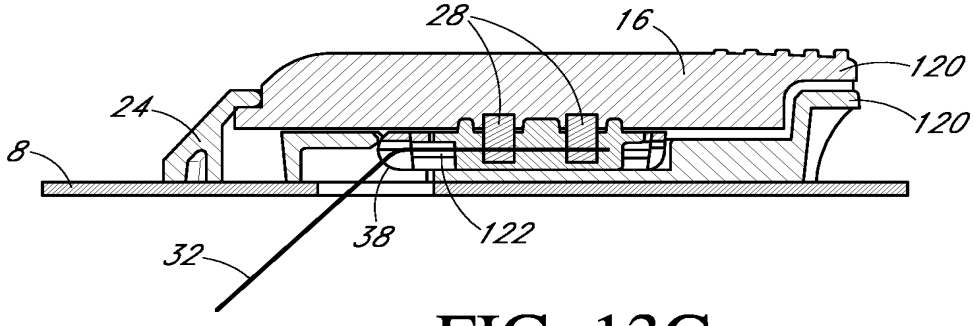


FIG. 13C

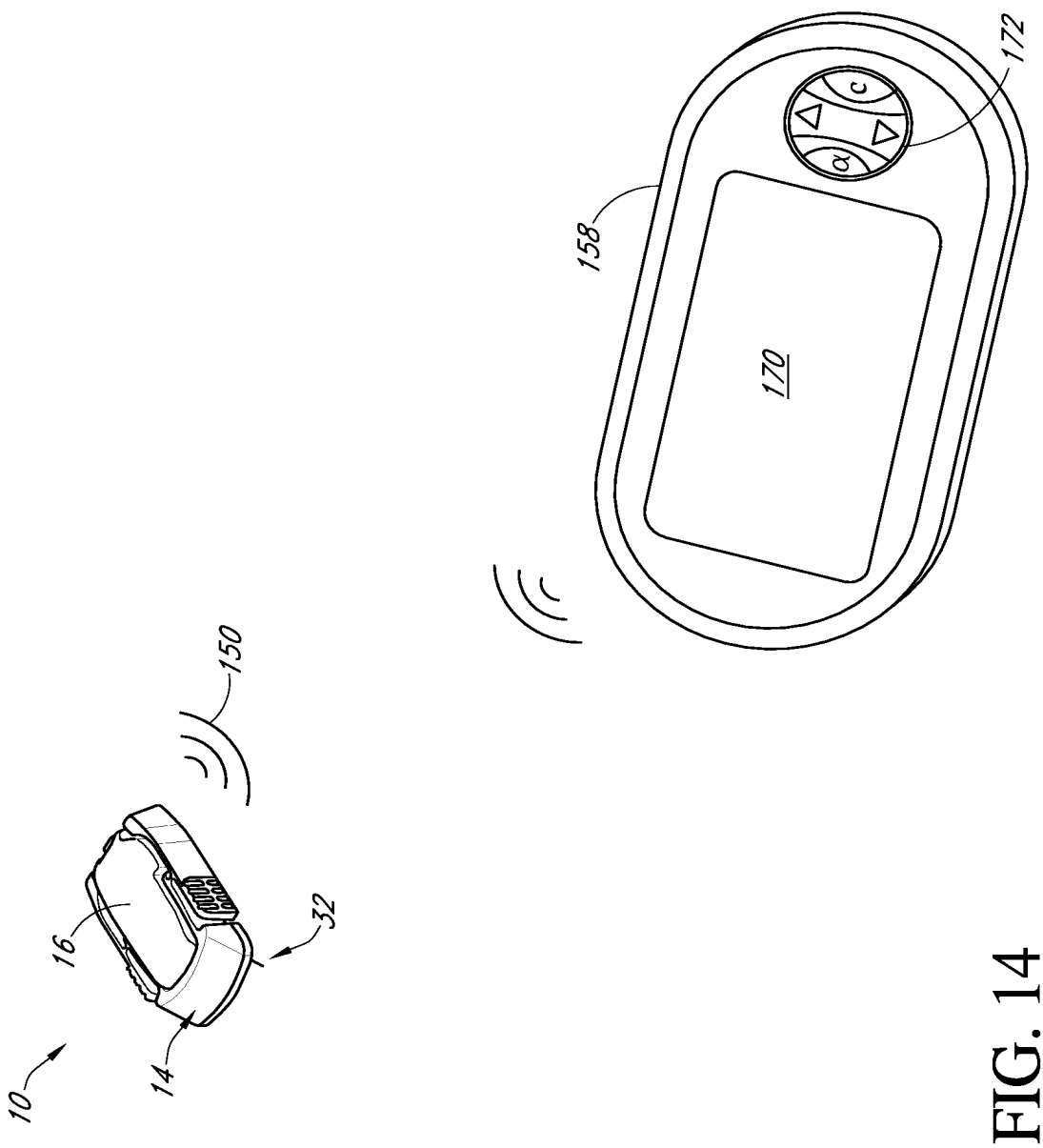


FIG. 14

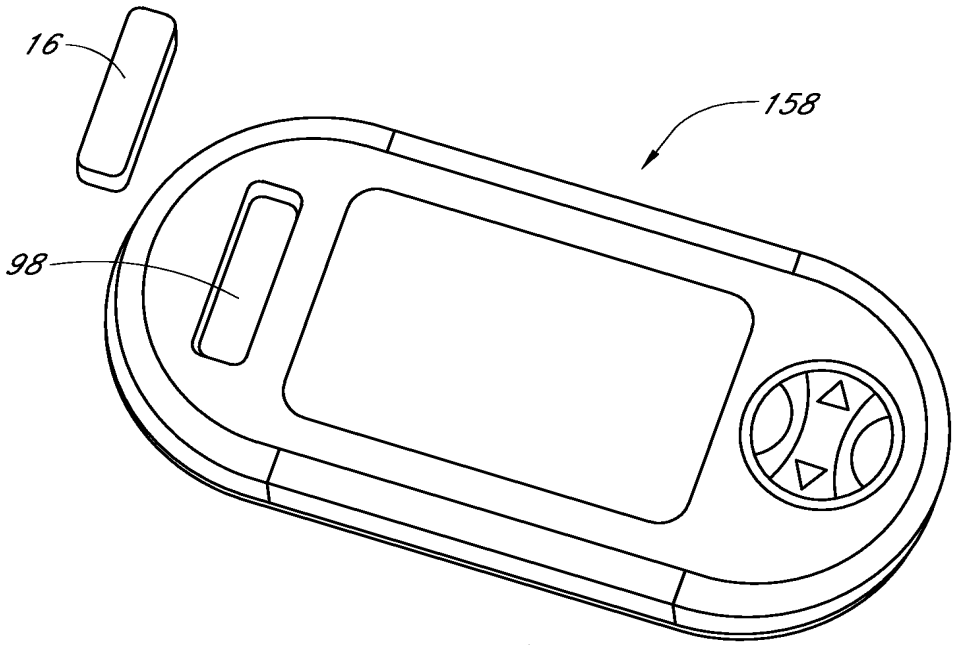


FIG. 15A

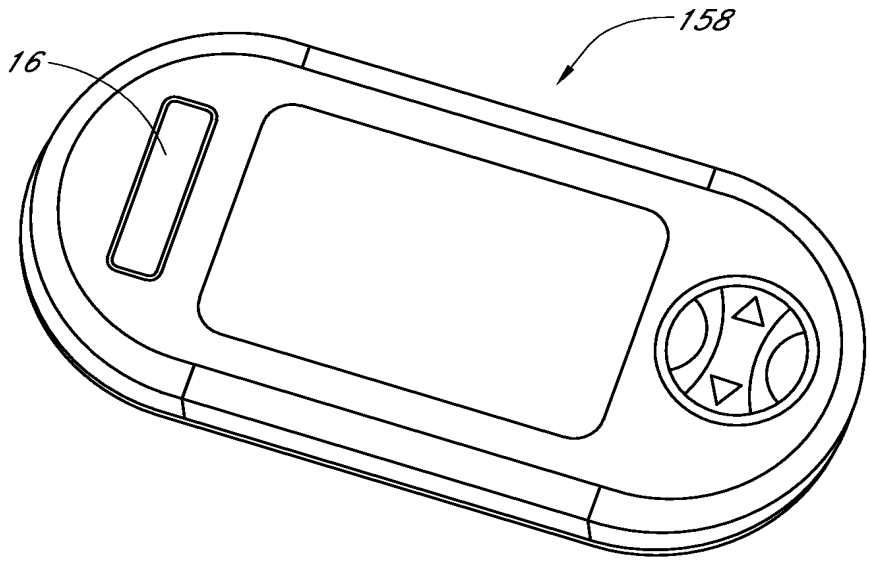


FIG. 15B

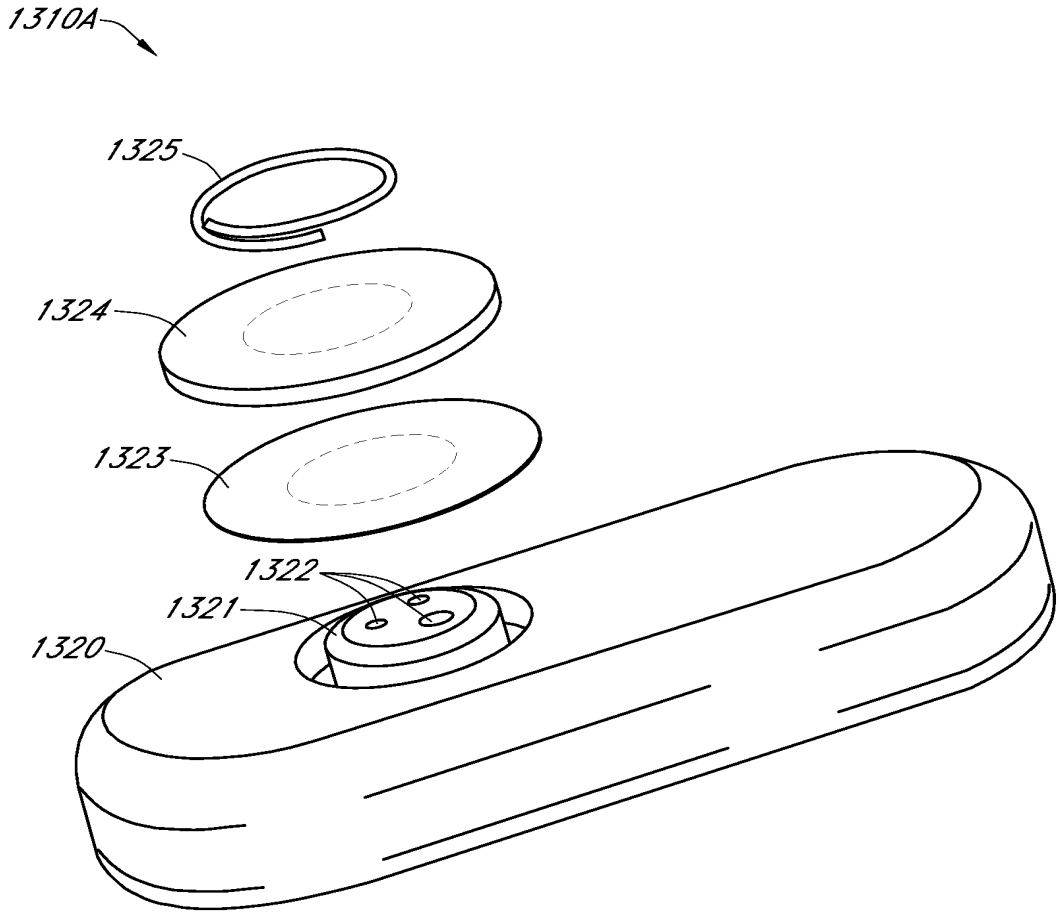


FIG. 16

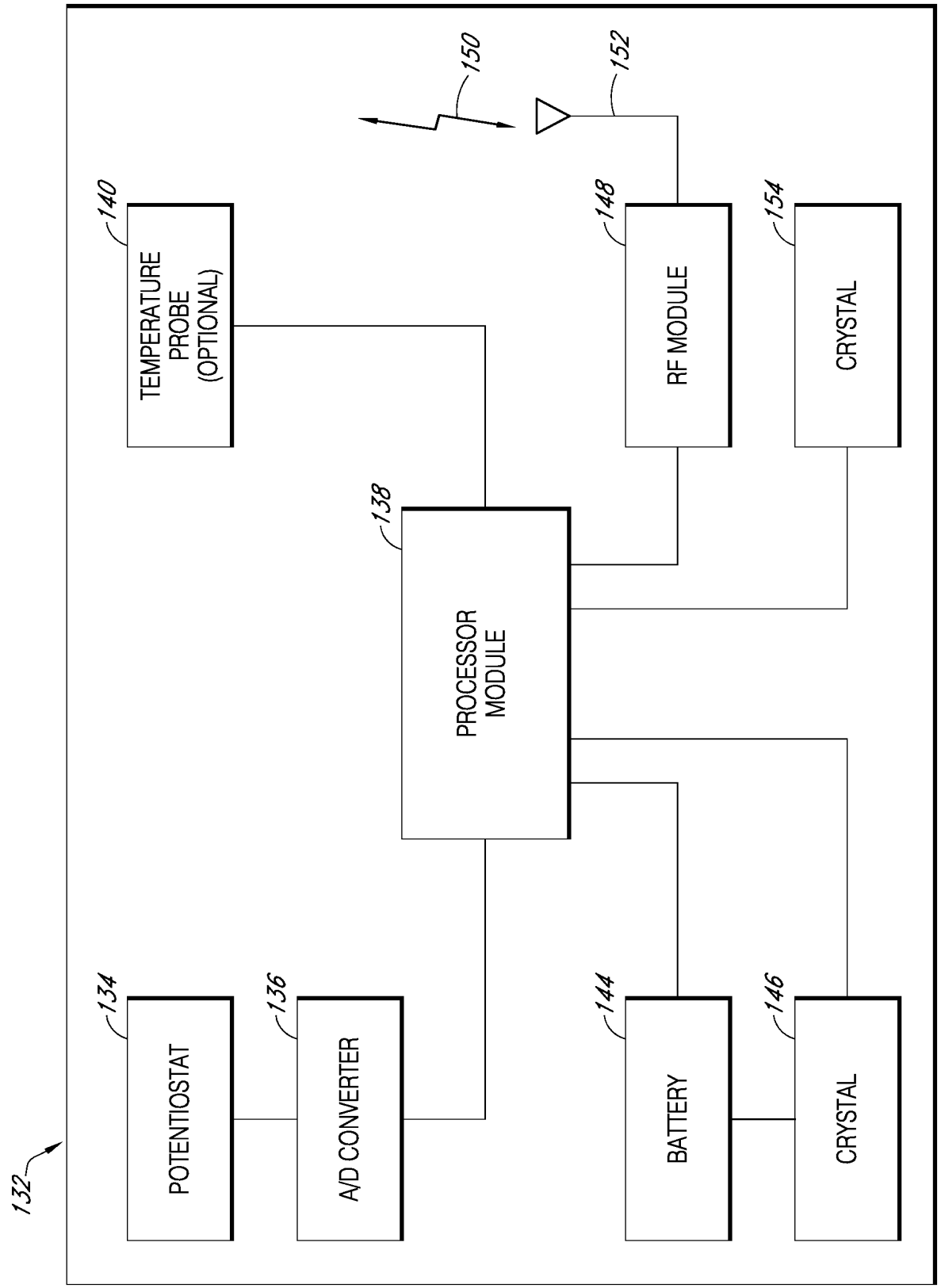

132
POTENTIOSTAT
134
A/D CONVERTER
136
PROCESSOR MODULE
138
TEMPERATURE PROBE (OPTIONAL)
140
150
152
RF MODULE
148
CRYSTAL
154
BATTERY
144
CRYSTAL
146

FIG. 17

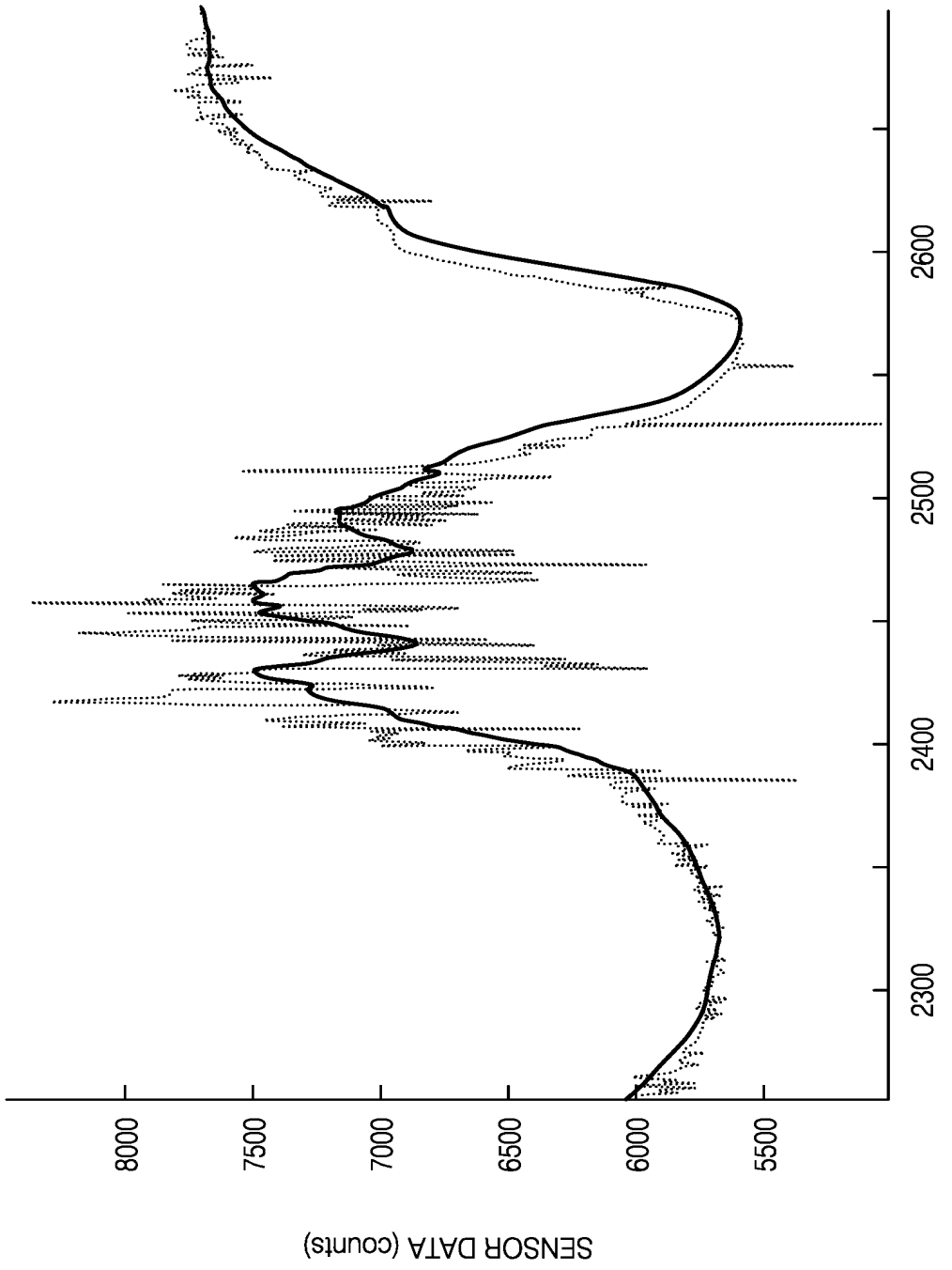

SENSOR DATA (counts)
8000
7500
7000
6500
6000
5500
2300
2400
2500
2600
TIME (minutes)

FIG. 18

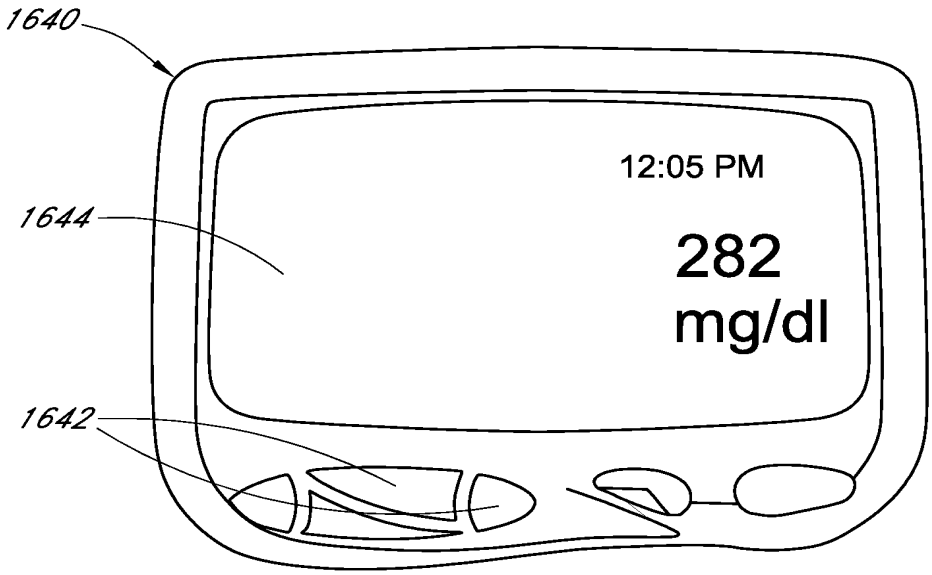


FIG. 19A

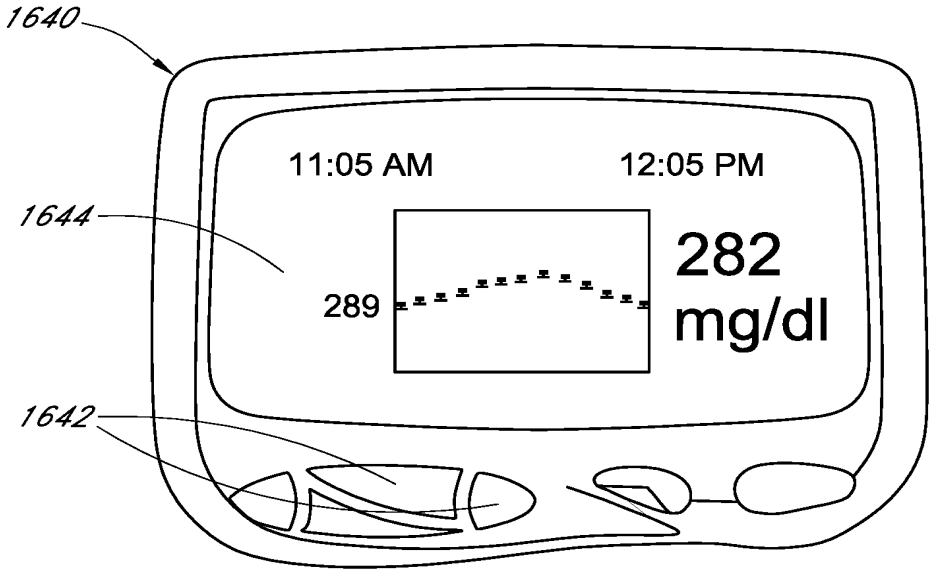


FIG. 19B

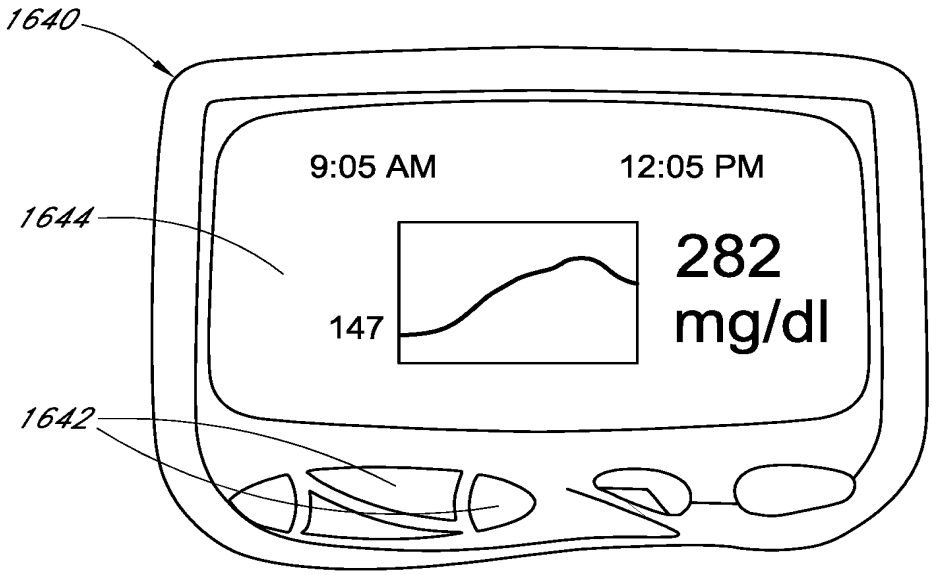


FIG. 19C

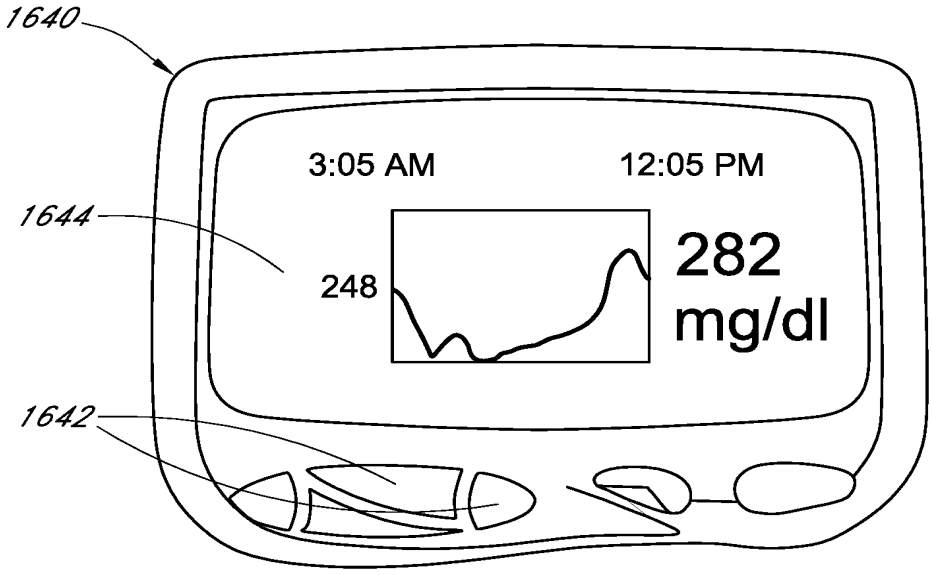


FIG. 19D

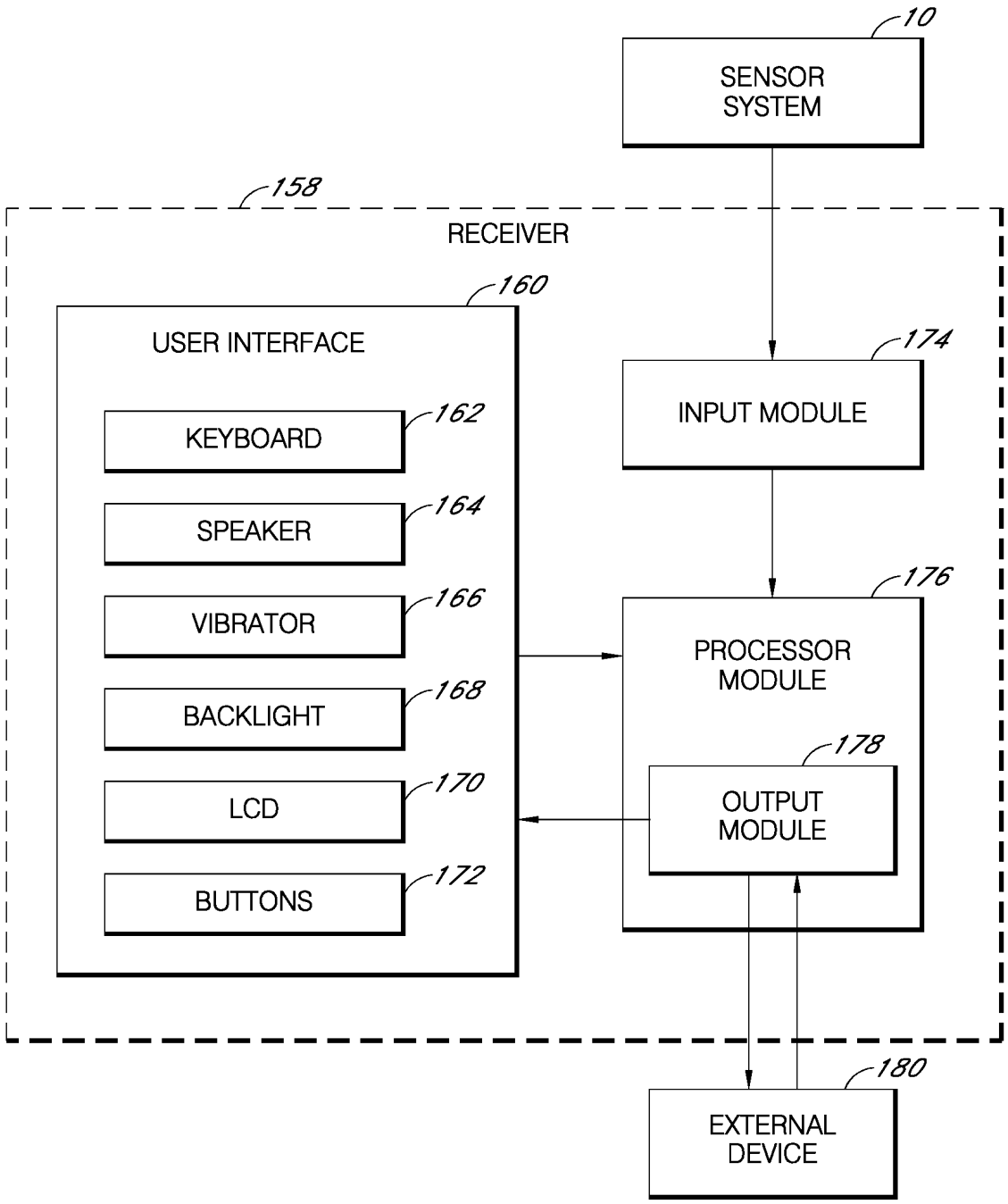

10
SENSOR SYSTEM
158
RECEIVER
160
USER INTERFACE
162
KEYBOARD
164
SPEAKER
166
VIBRATOR
168
BACKLIGHT
170
LCD
172
BUTTONS
174
INPUT MODULE
176
PROCESSOR MODULE
178
OUTPUT MODULE
180
EXTERNAL DEVICE

FIG. 20A

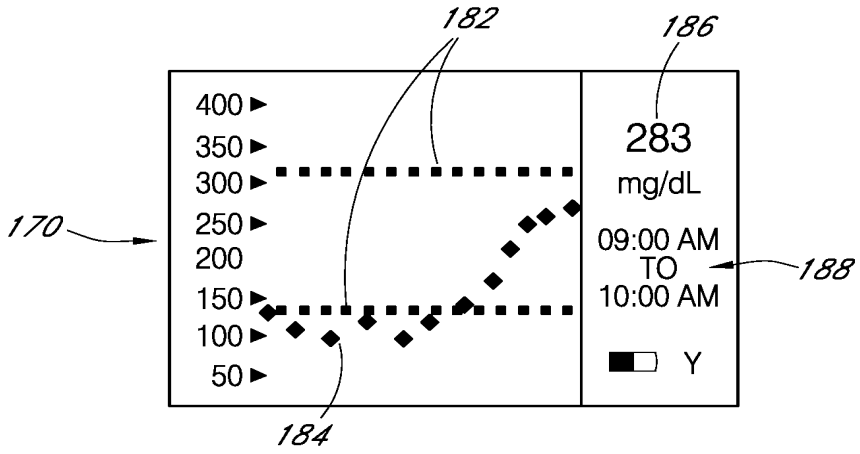


FIG. 20B



FIG. 20C

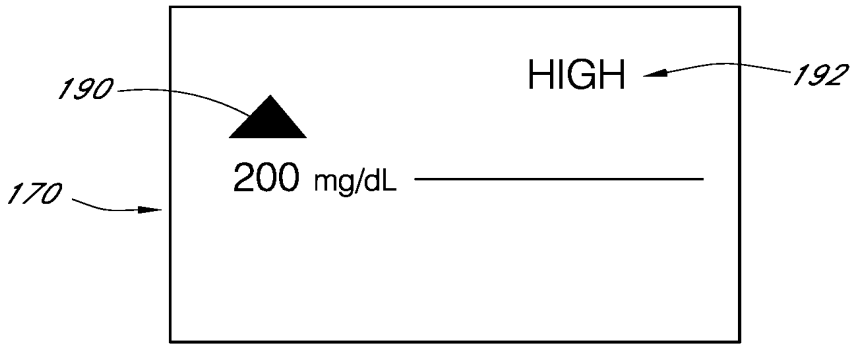


FIG. 20D

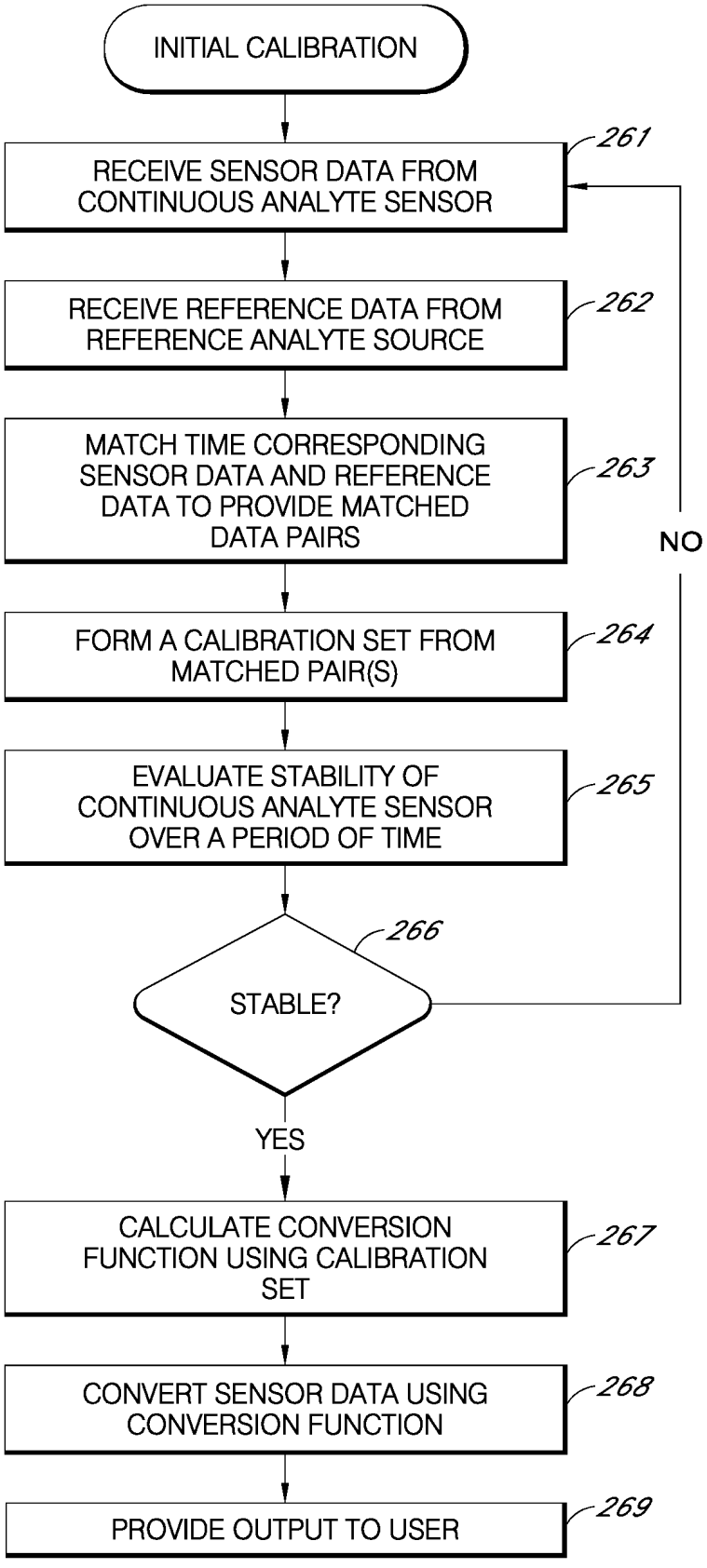

INITIAL CALIBRATION
RECEIVE SENSOR DATA FROM CONTINUOUS ANALYTE SENSOR
261
RECEIVE REFERENCE DATA FROM REFERENCE ANALYTE SOURCE
262
MATCH TIME CORRESPONDING SENSOR DATA AND REFERENCE DATA TO PROVIDE MATCHED DATA PAIRS
263
FORM A CALIBRATION SET FROM MATCHED PAIR(S)
264
EVALUATE STABILITY OF CONTINUOUS ANALYTE SENSOR OVER A PERIOD OF TIME
265
STABLE?
266
NO
YES
CALCULATE CONVERSION FUNCTION USING CALIBRATION SET
267
CONVERT SENSOR DATA USING CONVERSION FUNCTION
268
PROVIDE OUTPUT TO USER
269

FIG. 21

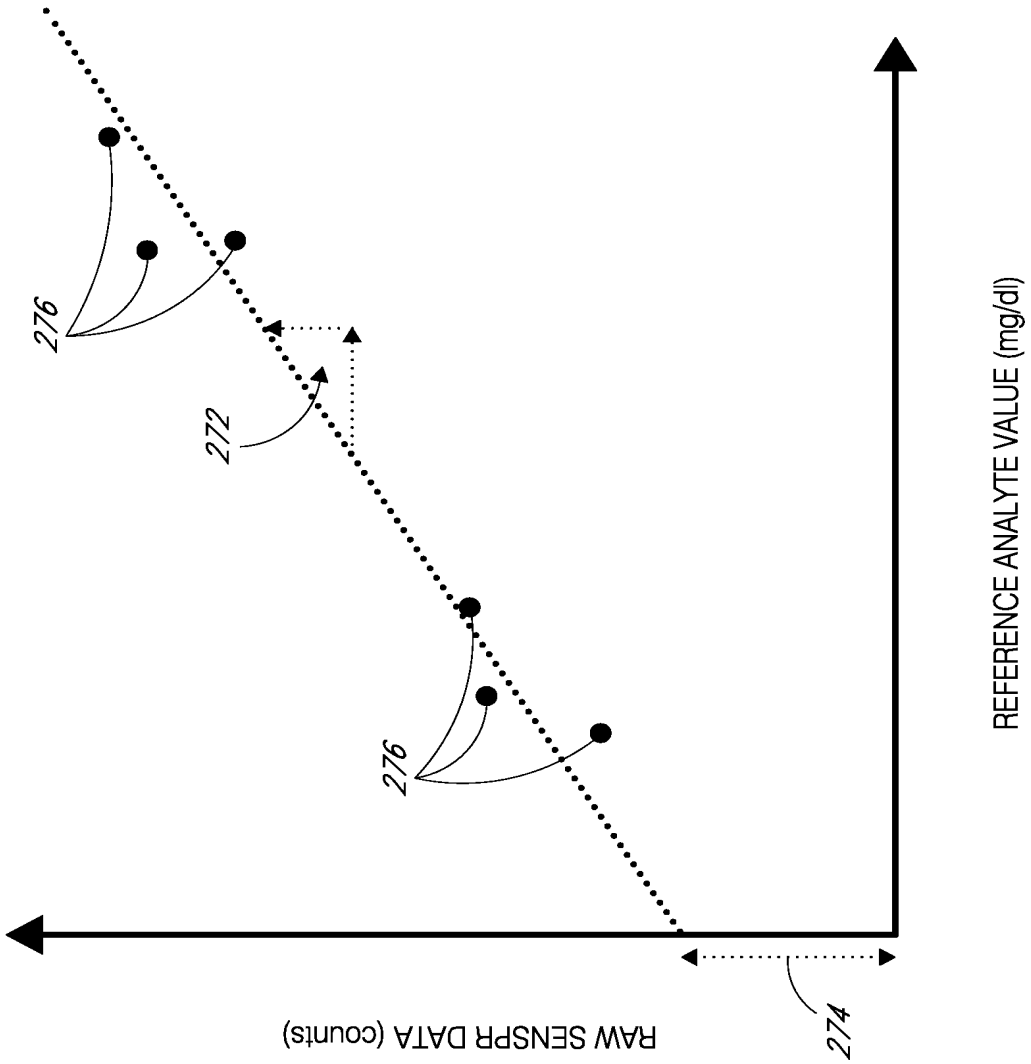

276
272
276
274
RAW SENSPR DATA (counts)
REFERENCE ANALYTE VALUE (mg/dl)

FIG. 22A

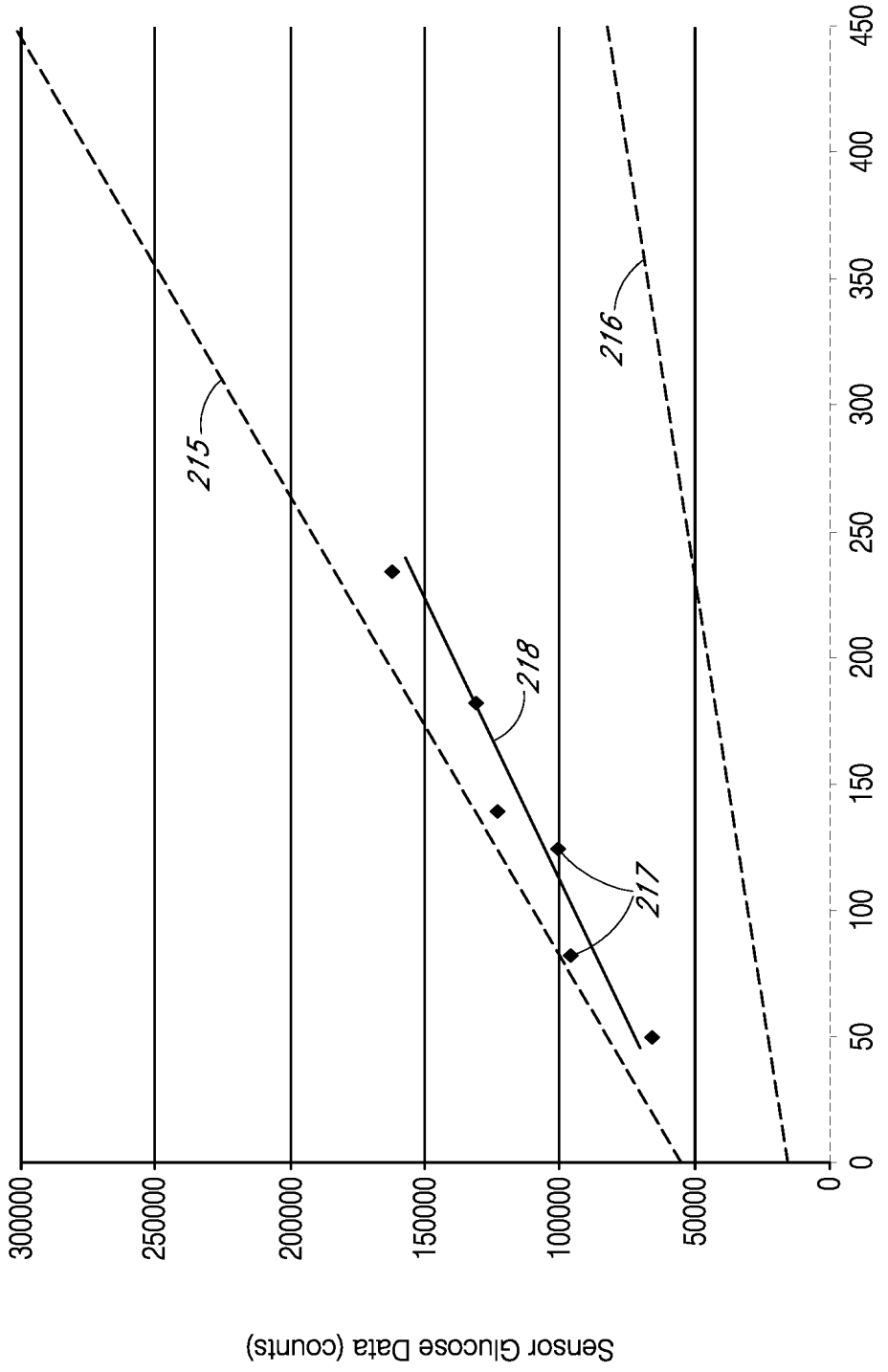

300000
250000
200000
150000
100000
50000
0
Sensor Glucose Data (counts)
0
50
100
150
200
250
300
350
400
450
Reference Glucose Data (mg/dL)
215
216
217
218

FIG. 22B

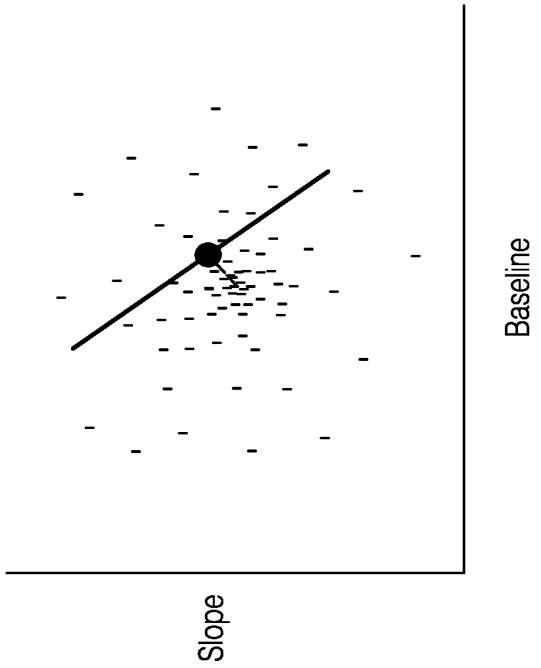


FIG. 22C

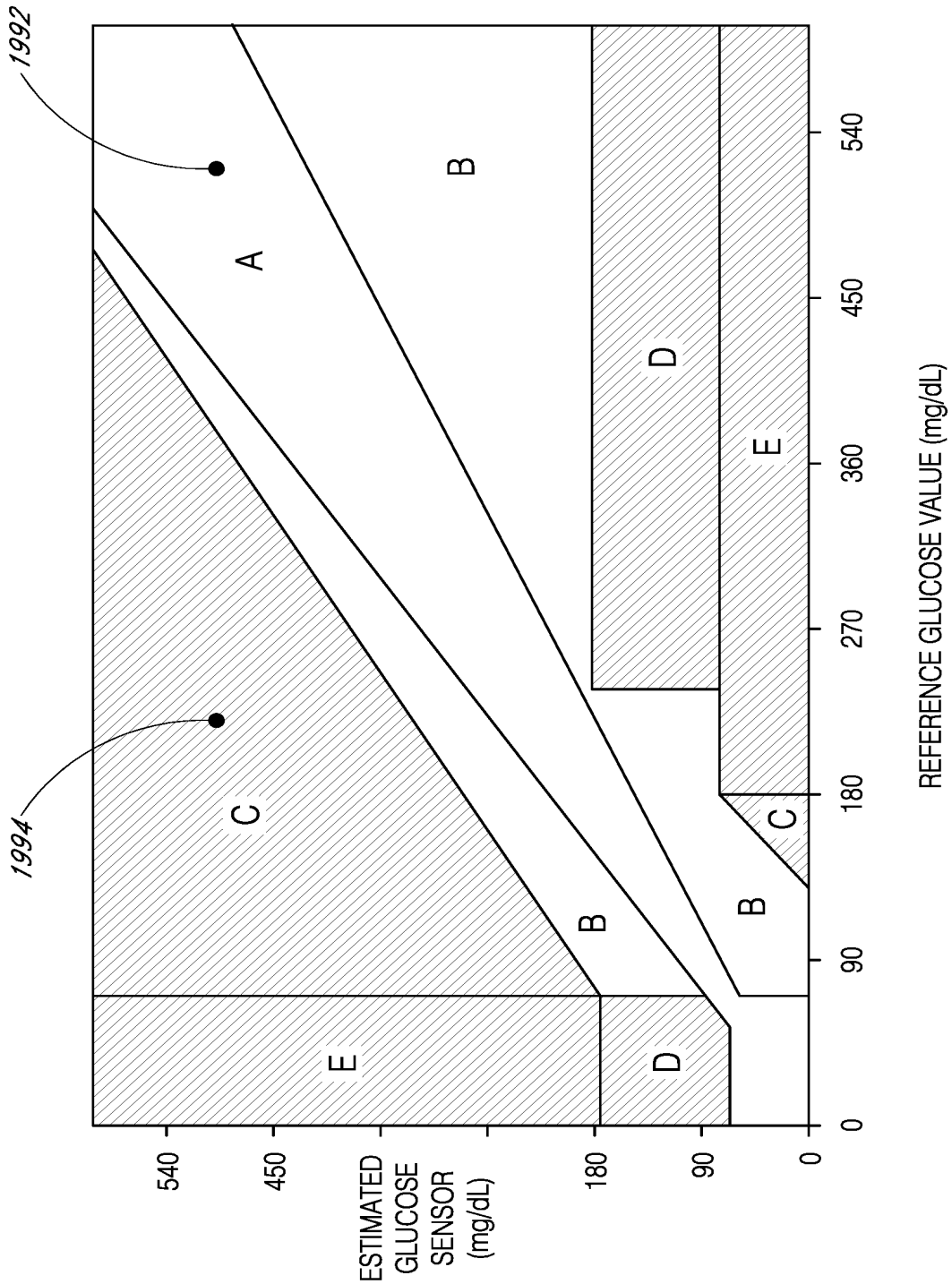

1992
1994
A
B
C
D
E
B
D
E
B
C
D
E
0
90
180
270
360
450
540
0
90
180
450
540
ESTIMATED GLUCOSE SENSOR (mg/dL)
REFERENCE GLUCOSE VALUE (mg/dL)

FIG. 23

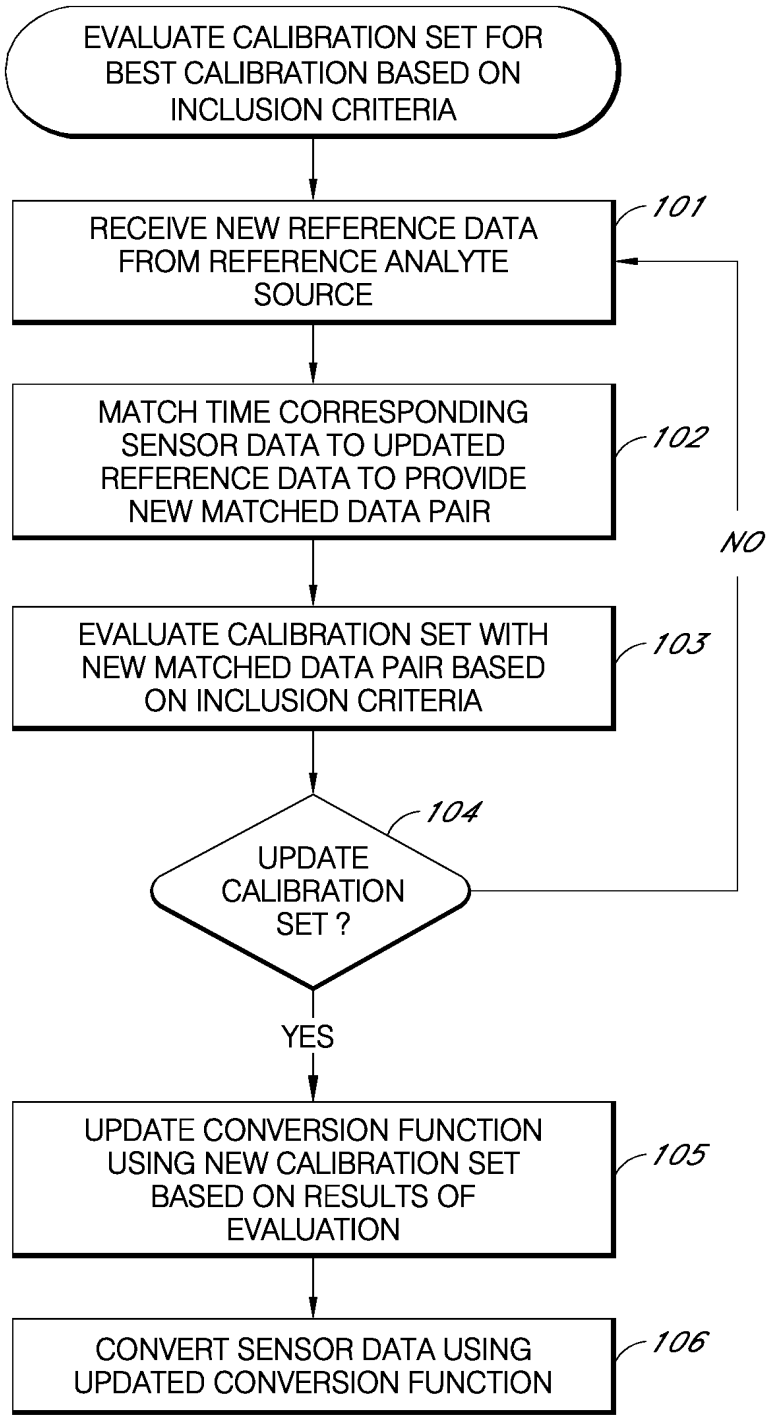

EVALUATE CALIBRATION SET FOR BEST CALIBRATION BASED ON INCLUSION CRITERIA
RECEIVE NEW REFERENCE DATA FROM REFERENCE ANALYTE SOURCE
101
MATCH TIME CORRESPONDING SENSOR DATA TO UPDATED REFERENCE DATA TO PROVIDE NEW MATCHED DATA PAIR
102
EVALUATE CALIBRATION SET WITH NEW MATCHED DATA PAIR BASED ON INCLUSION CRITERIA
103
104
UPDATE CALIBRATION SET ?
NO
YES
UPDATE CONVERSION FUNCTION USING NEW CALIBRATION SET BASED ON RESULTS OF EVALUATION
105
CONVERT SENSOR DATA USING UPDATED CONVERSION FUNCTION
106

FIG. 24

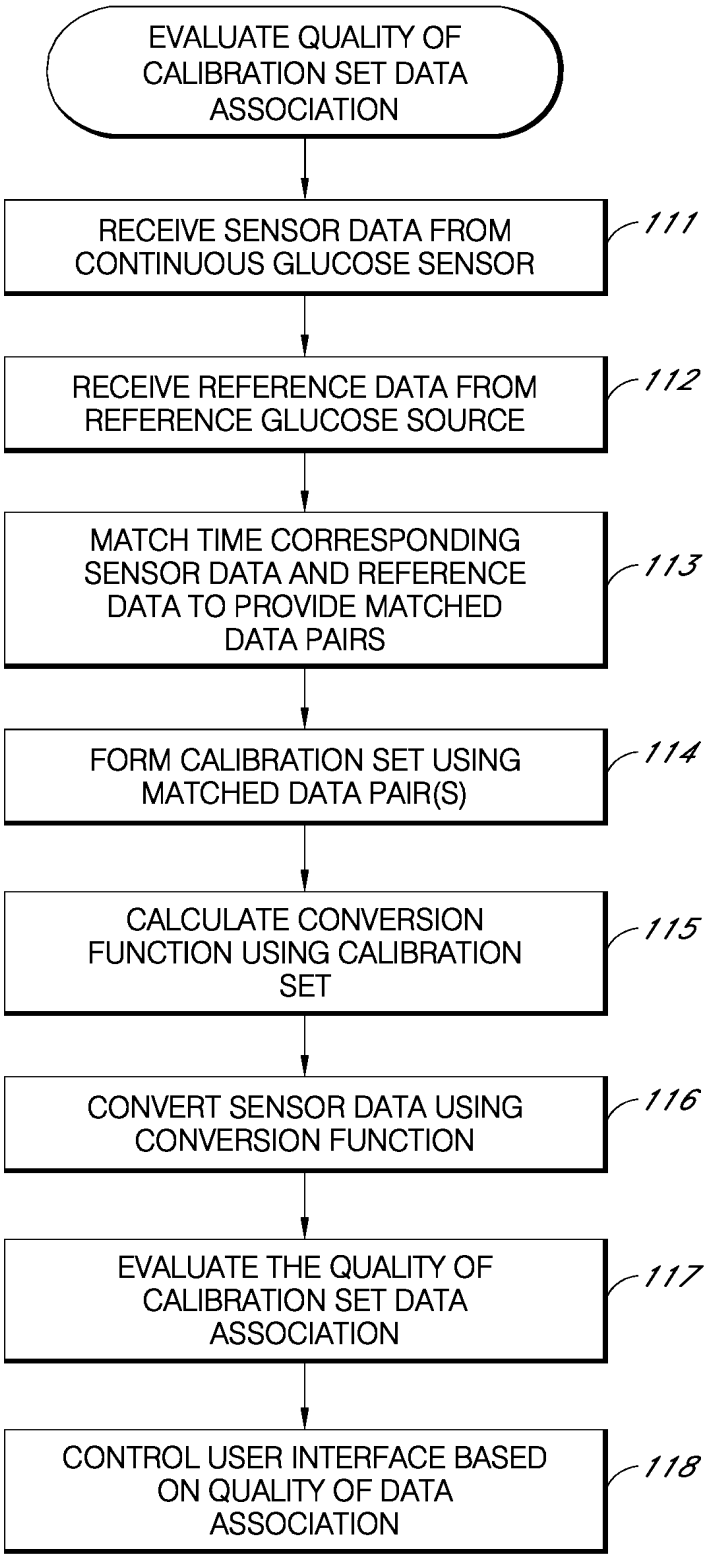

EVALUATE QUALITY OF CALIBRATION SET DATA ASSOCIATION
RECEIVE SENSOR DATA FROM CONTINUOUS GLUCOSE SENSOR
111
RECEIVE REFERENCE DATA FROM REFERENCE GLUCOSE SOURCE
112
MATCH TIME CORRESPONDING SENSOR DATA AND REFERENCE DATA TO PROVIDE MATCHED DATA PAIRS
113
FORM CALIBRATION SET USING MATCHED DATA PAIR(S)
114
CALCULATE CONVERSION FUNCTION USING CALIBRATION SET
115
CONVERT SENSOR DATA USING CONVERSION FUNCTION
116
EVALUATE THE QUALITY OF CALIBRATION SET DATA ASSOCIATION
117
CONTROL USER INTERFACE BASED ON QUALITY OF DATA ASSOCIATION
118

FIG. 25

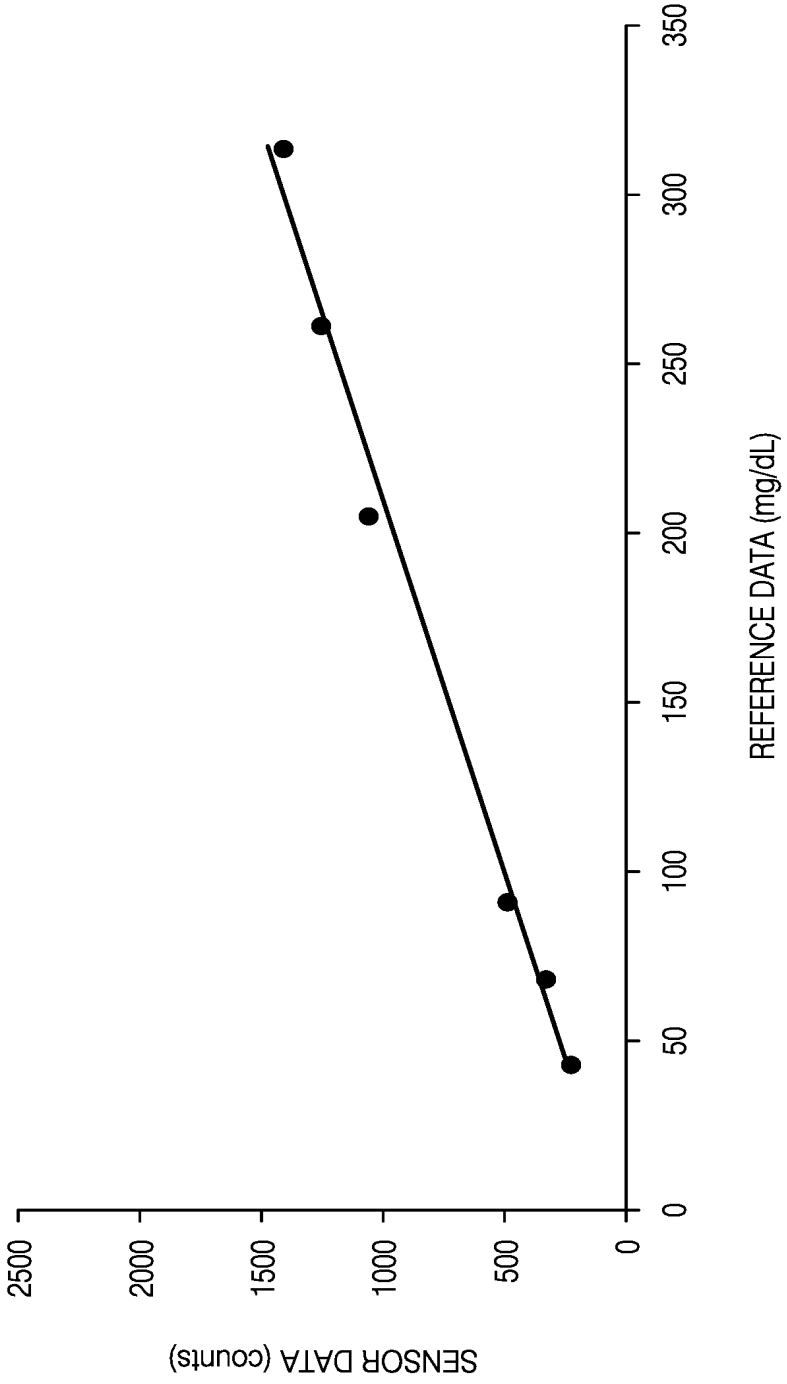

SENSOR DATA (counts)
2500
2000
1500
1000
500
0
0
50
100
150
200
250
300
350
REFERENCE DATA (mg/dL)

FIG. 26A

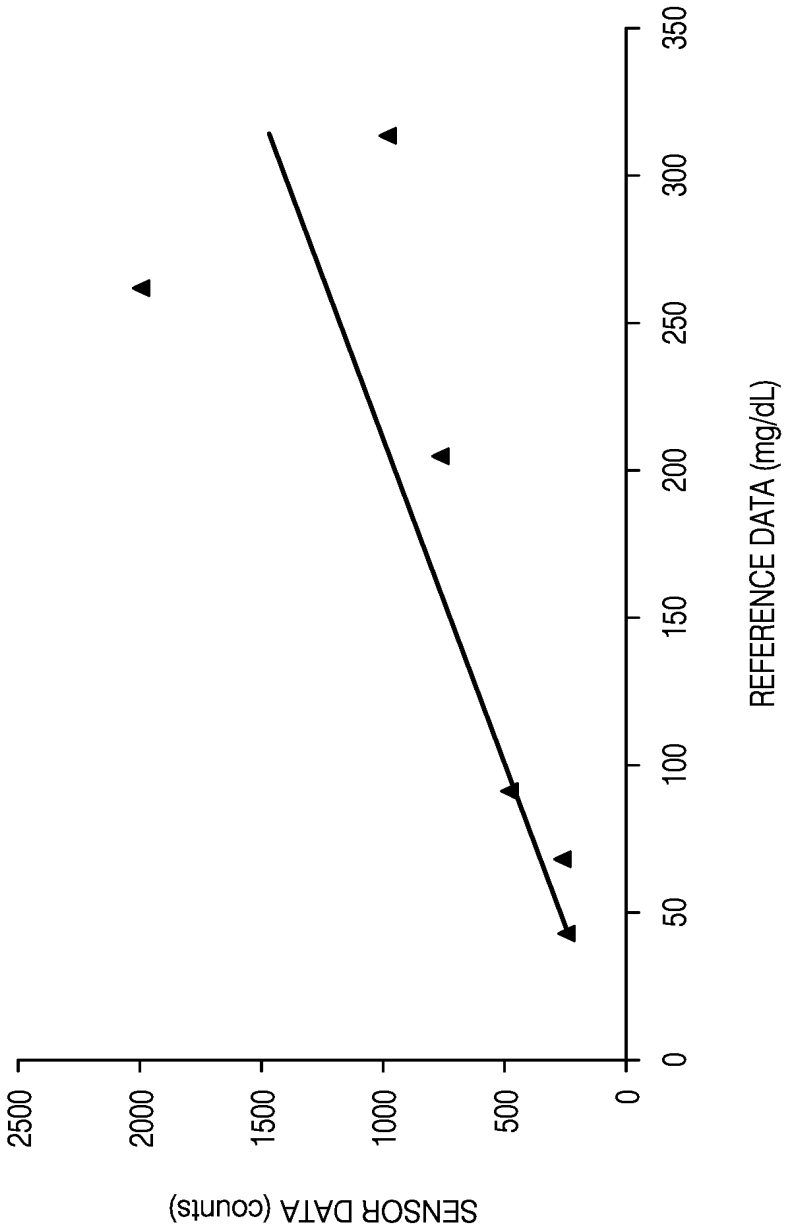

SENSOR DATA (counts)
2500
2000
1500
1000
500
0
0
50
100
150
200
250
300
350
REFERENCE DATA (mg/dL)

FIG. 26B

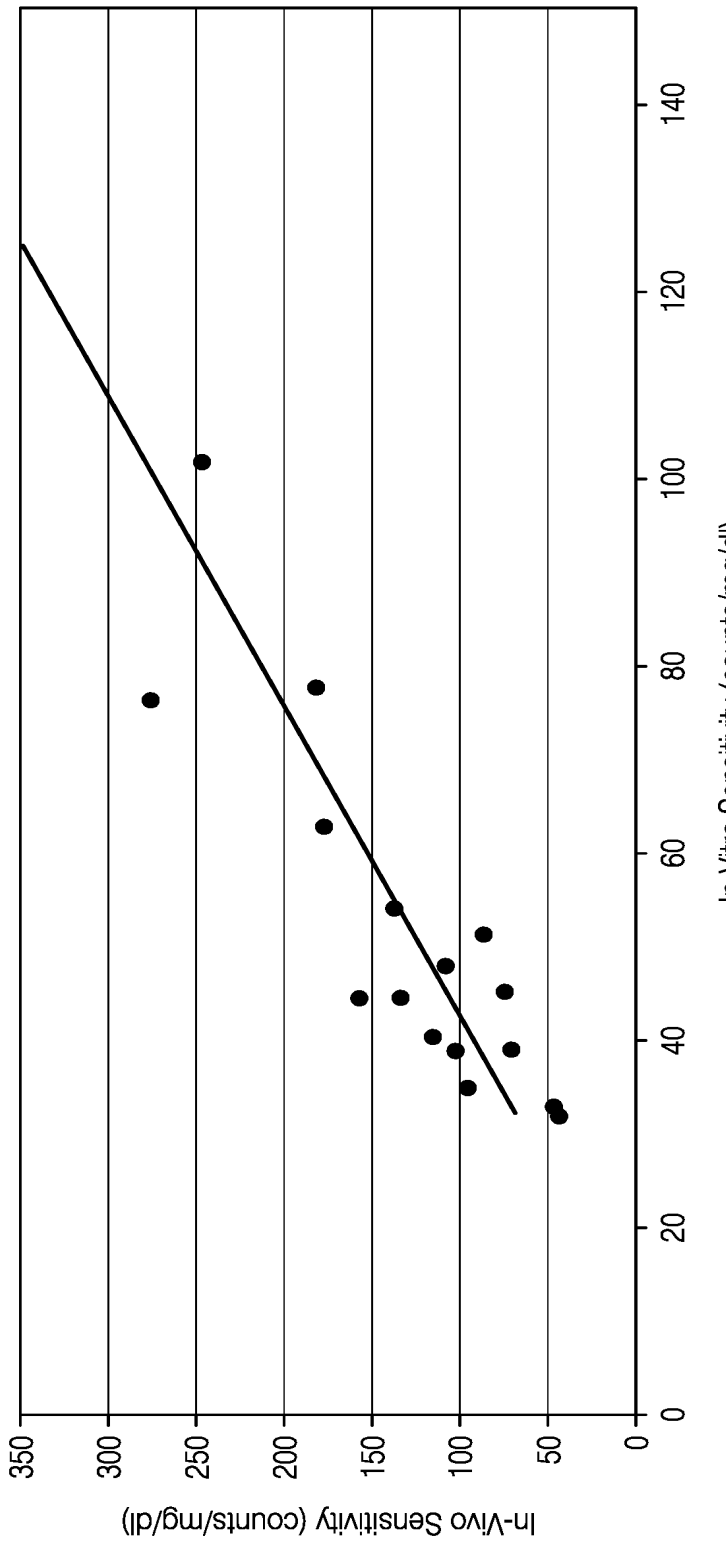

In-Vivo Sensitivity (counts/mg/dl)
350
300
250
200
150
100
50
0
0
20
40
60
80
100
120
140
In-Vitro Sensitivity (counts/mg/dl)
In-Vivo vs. In-Vitro Sensitivity (counts/mg/dl)

FIG. 27

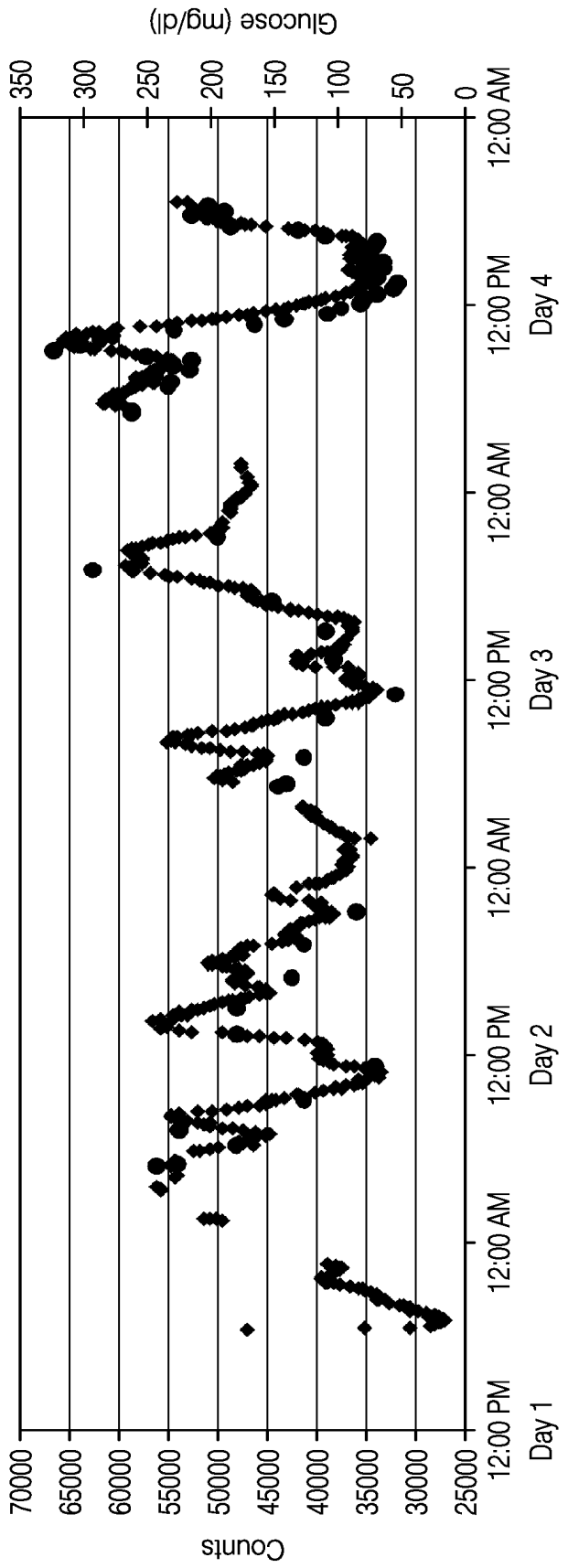
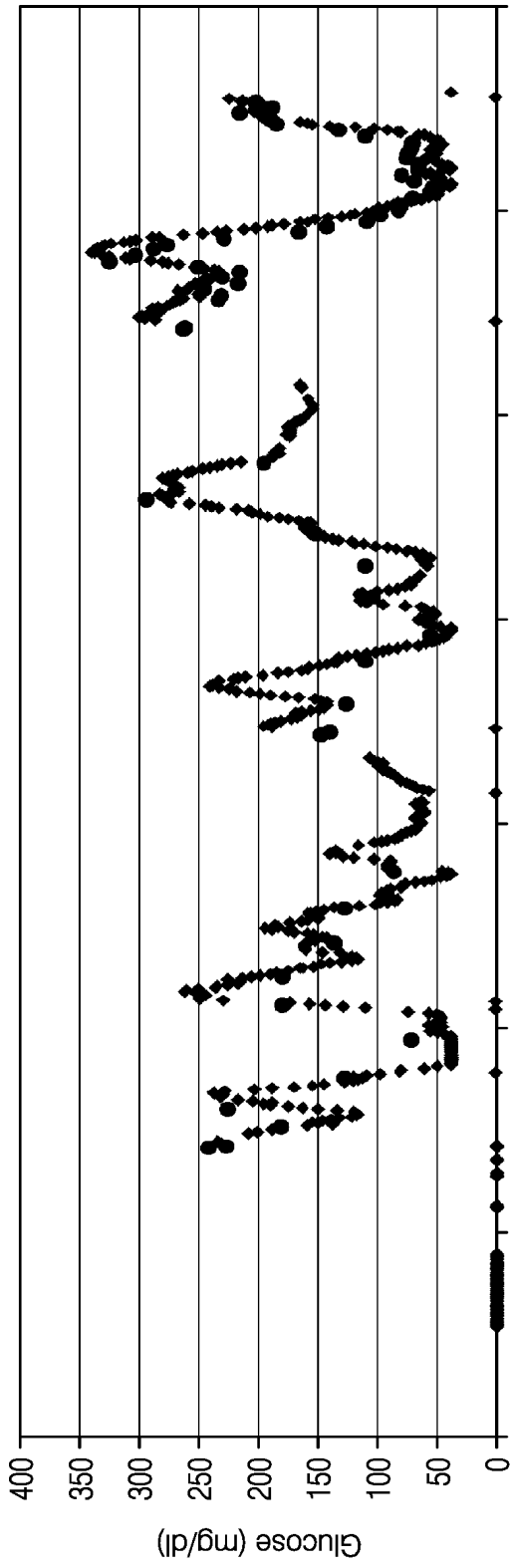

Glucose (mg/dl)
350
300
250
200
150
100
50
0
Counts
70000
65000
60000
55000
50000
45000
40000
35000
30000
25000
12:00 PM
12:00 AM
12:00 PM
12:00 AM
12:00 PM
12:00 AM
Day 1
Day 2
Day 3
Day 4
Counts (diamonds) and Blood Glucose (dots) vs. Time

FIG. 28



Sensor (diamonds) and Blood (dots) Glucose vs. Time. Calibration points shown by black dotx. Predicted in-vivo sensitivity used for calibration during day 1.

FIG. 29

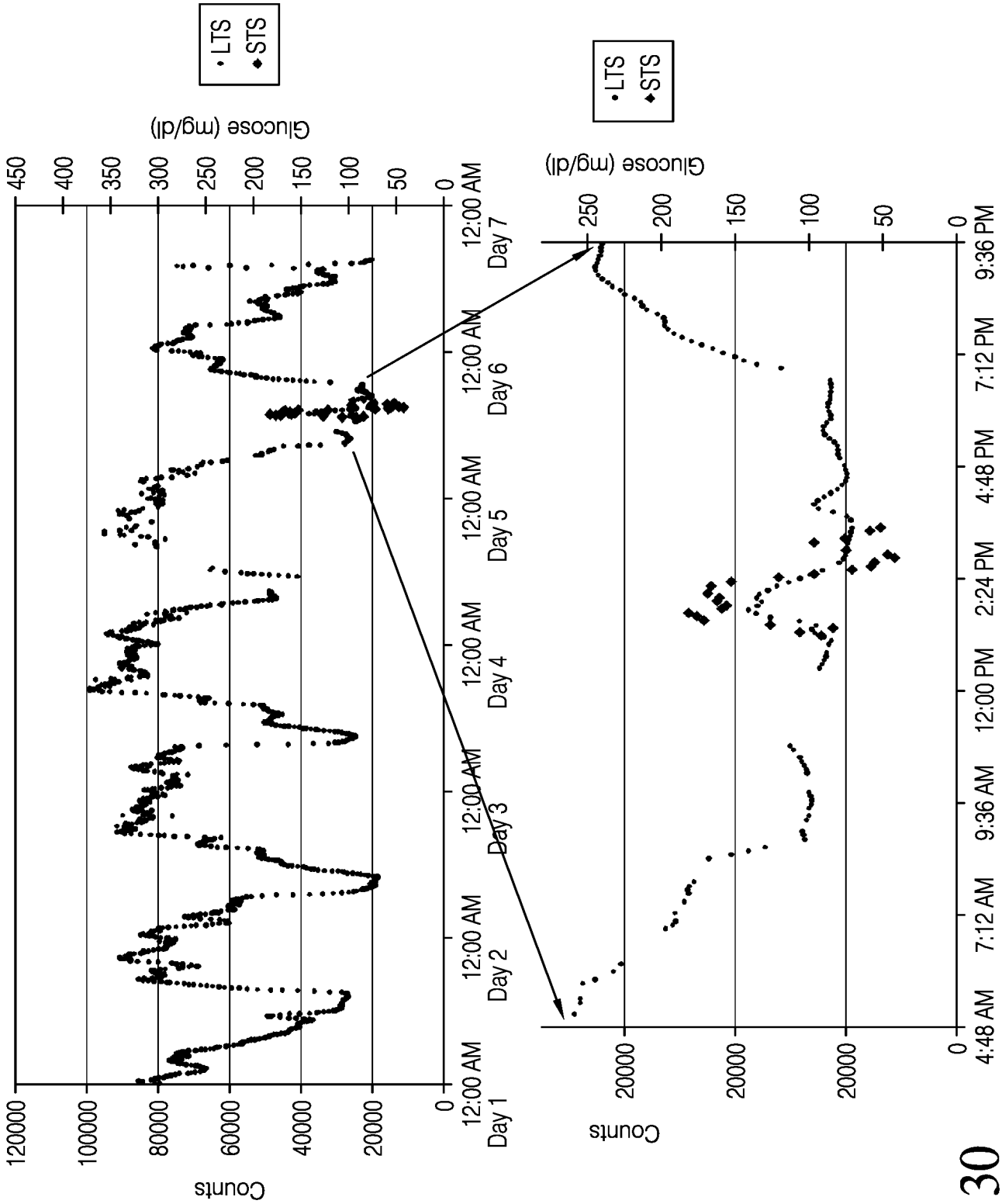

LTS
STS
Glucose (mg/dl)
Counts
12:00 AM
Day 1
Day 2
Day 3
Day 4
Day 5
Day 6
Day 7
4:48 AM
7:12 AM
9:36 AM
12:00 PM
2:24 PM
4:48 PM
7:12 PM
9:36 PM

FIG. 30

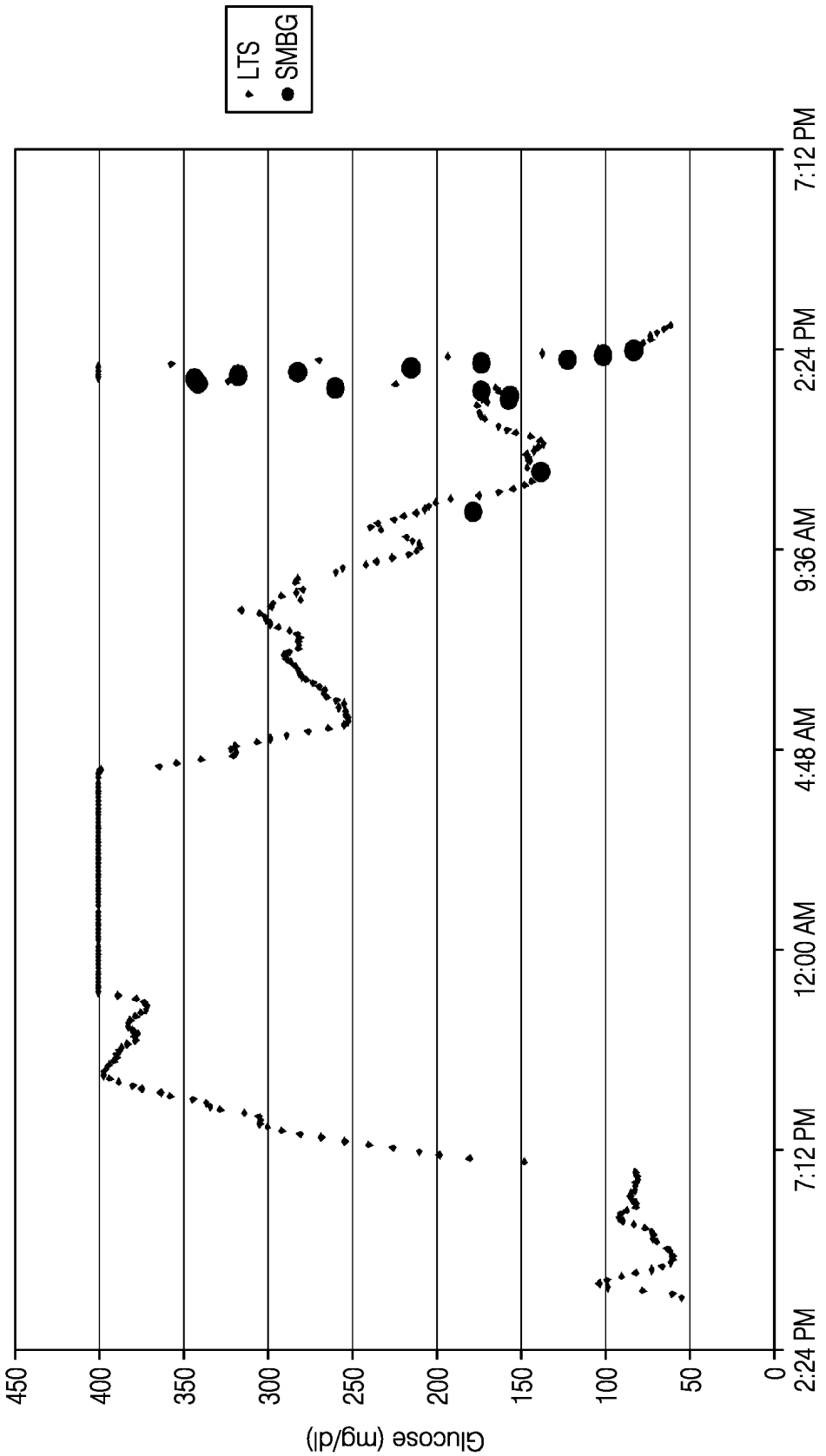

LTS
SMBG
Glucose (mg/dl)
450
400
350
300
250
200
150
100
50
0
2:24 PM
7:12 PM
12:00 AM
4:48 AM
9:36 AM
2:24 PM
7:12 PM

FIG. 31

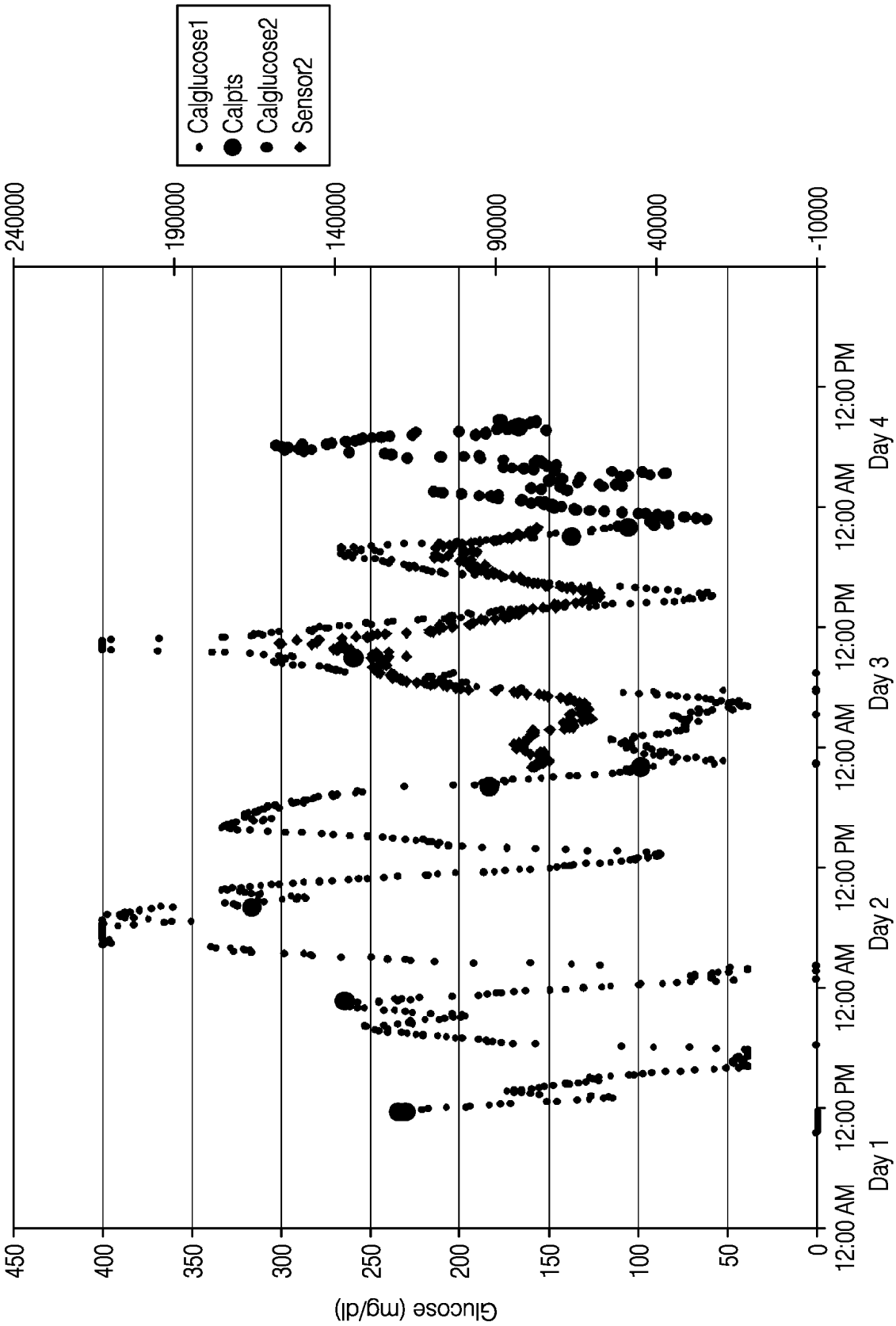

Calglucose1
Calpts
Calglucose2
Sensor2
240000
190000
140000
90000
40000
-10000
450
400
350
300
250
200
150
100
50
0
Glucose (mg/dl)
12:00 AM
12:00 PM
12:00 AM
12:00 PM
12:00 AM
12:00 PM
12:00 AM
12:00 PM
Day 1
Day 2
Day 3
Day 4

FIG. 32

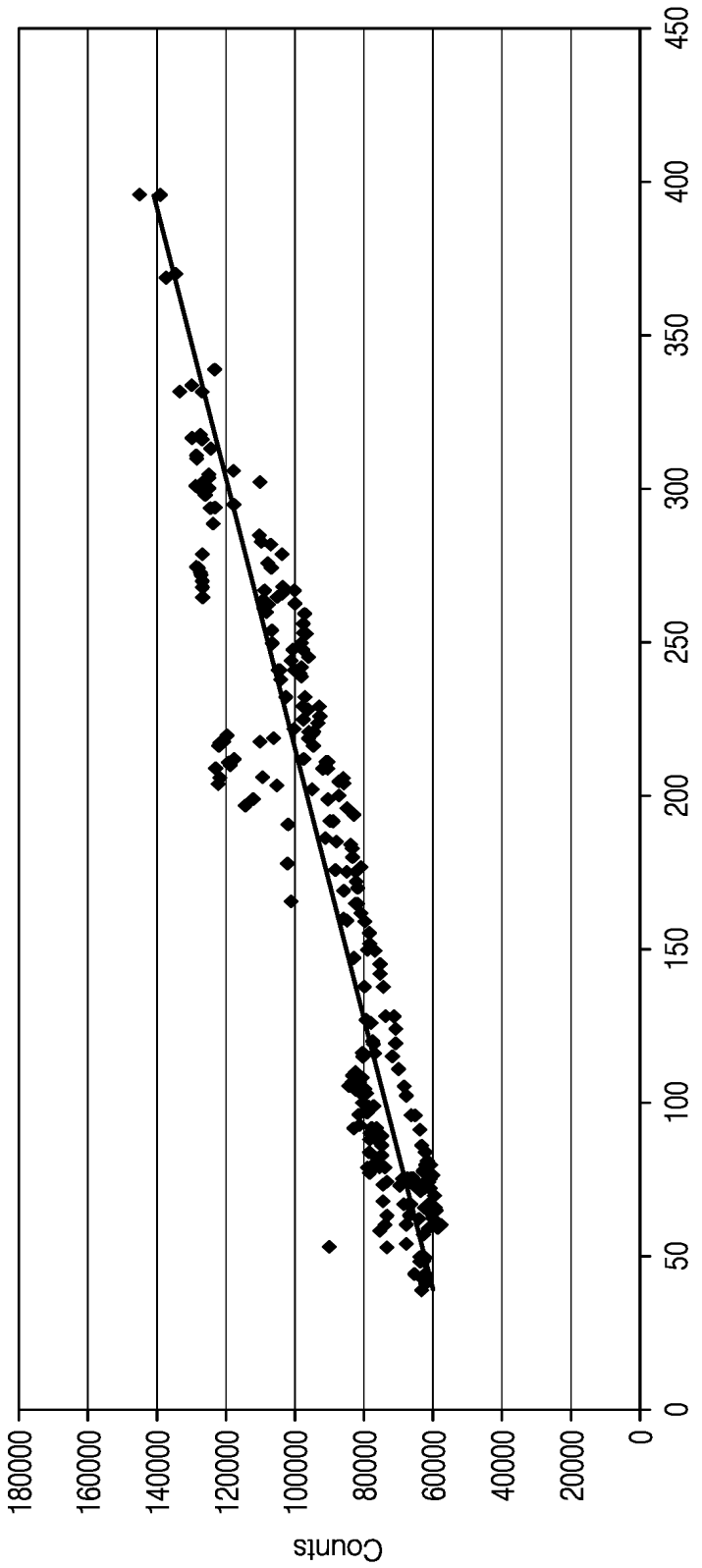

Counts
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
0
50
100
150
200
250
300
350
400
450
mg/dl

FIG. 33

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RESCISSION OF ANY PRIOR DISCLAIMERS AND REQUEST TO REVISIT ART

Inventor	:	Jack Pryor
App. No	:	Herewith
Filed	:	Unknown
For	:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
Examiner	:	Unknown
Art Unit	:	Unknown
Conf. No.	:	Unknown

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The claims of the present application are different and possibly broader in scope than the claims pursued in the parent applications. To the extent any prior amendments or characterizations of the scope of any claim or referenced art could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant hereby rescinds and retracts such disclaimer. Accordingly, the references previously considered in the parent applications may need to be re-visited.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Knobbe, Martens, Olson & Bear, LLP

Respectfully submitted,

Dated: November 21, 2019

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SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

ABSTRACT OF THE DISCLOSURE

Systems and methods for processing sensor analyte data are disclosed, including initiating calibration, updating calibration, evaluating clinical acceptability of reference and sensor analyte data, and evaluating the quality of sensor calibration. The sensor can be calibrated using a calibration set of one or more matched sensor and reference analyte data pairs. Reference data resulting from benchtop testing an analyte sensor prior to its insertion can be used to provide initial calibration of the sensor data. Reference data from a short term continuous analyte sensor implanted in a user can be used to initially calibrate or update sensor data from a long term continuous analyte sensor.

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WHAT IS CLAIMED IS:

1. A method for calibrating a continuous analyte sensor, comprising:

receiving sensor data from a continuous analyte sensor, wherein the sensor data is indicative of a glucose concentration in a host;

determining a conversion function, using a processor module, wherein the conversion function comprises a slope and a baseline, wherein the slope is representative of a sensor sensitivity, and wherein at least one of the slope or the baseline is determined based on prior distribution information; and

converting the sensor data using the conversion function.

2. The method of Claim 1, wherein determining the conversion function comprises determining the slope based on prior slope distribution information.

3. The method of Claim 2, wherein determining the slope comprises selecting a most probable slope from a distribution of slopes based on the prior slope distribution information.

4. The method of Claim 1, wherein determining the conversion function comprises determining the baseline based on prior baseline distribution information.

5. The method of Claim 2, wherein determining the baseline comprises selecting a most probable baseline from a distribution of baselines based on the prior baseline distribution information.

6. The method of Claim 1, wherein determining the conversion function comprises determining the slope and the baseline based on prior slope and baseline distribution information.

7. The method of Claim 6, wherein determining the slope and the baseline comprises selecting a most probable slope and baseline from a distribution of slopes and baselines based on the prior slope and baseline distribution information.

8. The method of Claim 7, wherein selecting the most probable slope and baseline comprises selecting a slope and baseline closest to the maximum joint probability of both the slope and baseline distributions.

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9. The method of Claim 1, where determining the conversion function comprises selecting one of a plurality of possible calibration lines having various baselines and slopes based on prior information indicative of typical distribution of slopes and/or baselines.

10. The method of Claim 1, wherein the slope is determined, at least in part, based on *in-vitro* slope information determined by a benchtop calibration process.

11. The method of Claim 1, further comprising receiving reference data from a reference analyte monitor, wherein the slope is determined, at least in part, based on the reference analyte value.

12. The method of Claim 1, wherein the prior distribution information is derived from *in vivo* testing of at least one other continuous glucose sensor or *in vitro* testing.

13. The method of Claim 1, further comprising displaying the converted sensor data is substantially real time.

14. The method of Claim 1, wherein the analyte is glucose.

15. A system for calibrating a continuous analyte sensor, comprising:

a continuous analyte sensor configured to provide sensor data indicative of an analyte concentration in a host; and

a processor module configured to determine a conversion function, wherein the conversion function comprises a slope and a baseline, wherein the slope is representative of a sensor sensitivity, wherein at least one of the slope or the baseline is determined based on prior distribution information, and wherein the processor module is configured to convert the sensor data using the conversion function.

16. The system of Claim 15, wherein the processor module is configured to determine the slope based on prior slope distribution information.

17. The system of Claim 16, wherein the processor module is configured to determine the slope by selecting a most probable slope from a distribution of slopes based on the prior slope distribution information.

18. The system of Claim 15, wherein the processor module is configured to determine the baseline based on prior baseline distribution information.

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19. The system of Claim 15, wherein the processor module is configured to determine the baseline by selecting a most probable baseline from a distribution of baselines based on the prior baseline distribution information.

20. The system of Claim 15, wherein the processor module is configured to determine the slope and the baseline based on prior slope and baseline distribution information.

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SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

INCORPORATION BY REFERENCE TO RELATED APPLICATIONS

[0001] Any and all priority claims identified in the Application Data Sheet, or any correction thereto, are hereby incorporated by reference under 37 CFR 1.57. This application is a continuation of U.S. Application No. 16/457,628, filed June 28, 2019, which is a continuation of U.S. Application No. 15/787,595, filed October 18, 2017, which is a continuation of U.S. Application No. 15/065,623, filed March 9, 2016, now U.S. Patent No. 9,918,668, which is a continuation of U.S. Application No. 13/607,162, filed September 7, 2012, now U.S. Patent No. 9,314,196, which is a continuation of U.S. Application No. 12/683,755, filed on January 7, 2010, now U.S. Patent No. 8,611,978, which is a continuation of U.S. Application No. 11/373,628, filed on March 9, 2006, now U.S. Patent No. 7,920,906, which claims the benefit of U.S. Provisional Application No. 60/660,743, filed on March 10, 2005. Each of the aforementioned applications is incorporated by reference herein in its entirety, and each is hereby expressly made a part of this specification.

FIELD OF THE INVENTION

[0002] The present invention relates generally to systems and methods for analyte sensor data processing. Particularly, the present invention relates calibration of sensors.

BACKGROUND OF THE INVENTION

[0003] Diabetes mellitus is a disorder in which the pancreas cannot create sufficient insulin (Type I or insulin dependent) and/or in which insulin is not effective (Type 2 or non–insulin dependent). In the diabetic state, the victim suffers from high blood sugar, which can cause an array of physiological derangements (*e.g.*, kidney failure, skin ulcers, or bleeding into the vitreous of the eye) associated with the deterioration of small blood vessels. A hypoglycemic reaction (low blood sugar) can be induced by an inadvertent overdose of insulin, or after a normal dose of insulin or glucose-lowering agent accompanied by extraordinary exercise or insufficient food intake.

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[0004] Conventionally, a diabetic person carries a self-monitoring blood glucose (SMBG) monitor, which typically comprises uncomfortable finger pricking methods. Due to the lack of comfort and convenience, a diabetic will normally only measure his or her glucose level two to four times per day. Unfortunately, these time intervals are so far spread apart that the diabetic will likely find out too late, sometimes incurring dangerous side effects, of a hyper- or hypo-glycemic condition. Alternatively, a long term sensor implanted in a diabetic person can provide substantially continuous blood glucose measurements to a receiver carried by the diabetic and obviate the finger pricking method. Due to its biological interface, after it is implanted a long term sensor typically requires a waiting period after which its sensor data must be calibrated using the finger prick method or the like.

SUMMARY OF THE INVENTION

[0005] Systems and methods for providing blood glucose measurements are needed that can shorten the calibration process of a long term sensor, avoid or reduce dependence on using the finger prick method during calibration, or overcome other problems known in the art. Systems and methods are disclosed that provide calibration of a long term sensor data using sensor data from another sensor. In one embodiment, the invention includes a method for calibrating an analyte sensor, the method including receiving sensor data from a first analyte sensor, receiving sensor data from a second analyte sensor, and calibrating the sensor data from the first analyte sensor using the sensor data from the second analyte sensor.

[0006] In one aspect of the first embodiment, the first analyte sensor is a long term substantially continuous analyte sensor and the second analyte sensor is a short term substantially continuous sensor. One embodiment of this aspect further includes receiving sensor data from a set of substantially continuous analyte sensors, the set of sensors comprising one or more short term sensors, and the set of sensors being employed in a host in series such that the overall time period during which sensor data from the set of sensors is received is greater than the useful lifespan of one of the short term sensors and calibrating the sensor data from the first analyte sensor using the sensor data from the second analyte sensor and the set of sensors. In another embodiment of this aspect calibrating the long term sensor

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data further includes using sensor data from the short term analyte sensor to update the calibration of the long term analyte sensor.

[0007] In a second aspect of the first embodiment, the first and second analyte sensors are glucose sensors.

[0008] In a third aspect of the first embodiment, the sensor data from the first analyte sensor includes at least one sensor data point, wherein the sensor data from the second analyte sensor includes at least one data point, and wherein calibrating the sensor data further comprises forming one or more matched data pairs by matching at least one sensor data point from the first analyte sensor to at least one sensor data point from the second analyte sensor and forming a calibration set comprising at least one matched data pair.

[0009] In a fourth aspect of the first embodiment, the sensor data from the first analyte sensor includes at least six sensor data points, wherein the sensor data from the second analyte sensor includes at least six sensor data points, and wherein calibrating the sensor data further comprises forming at least six matched data pairs by matching each sensor data point from the first analyte sensor to a corresponding sensor data point from the second analyte sensor and forming a calibration set comprising at least six matched data pairs.

[0010] In a fifth aspect of the first embodiment, the sensor data from the first analyte sensor includes at least twenty sensor data points, wherein the sensor data from the second analyte sensor includes at least twenty sensor data points, and wherein calibrating the sensor data further comprises forming at least twenty matched data pairs by matching each sensor data point from the first analyte sensor to a corresponding sensor data point from the second analyte sensor and forming a calibration set comprising at least twenty matched data pairs.

[0011] In a sixth aspect of the first embodiment, the method further includes constructing a first curve from the sensor data from the first analyte sensor and constructing a second curve from the sensor data from the second analyte sensor,wherein calibrating the sensor data from the first analyte sensor comprises matching the first curve with the second curve.

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[0012] In a seventh aspect of the first embodiment, the first analyte sensor is a short term substantially continuous analyte sensor and the second analyte sensor is a short term substantially continuous analyte sensor.

[0013] In a eighth aspect of the first embodiment, the first analyte sensor is a long term substantially continuous analyte sensor and the second analyte sensor is a long term substantially continuous analyte sensor.

[0014] In a ninth aspect of the first embodiment, the first analyte sensor is a short term substantially continuous analyte sensor and the second analyte sensor is a long term substantially continuous analyte sensor.

[0015] In a tenth aspect of the first embodiment, the method further includes receiving data from a non-continuous reference source, and wherein said calibrating further includes using data from the non-continuous reference source to calibrate the sensor data from the second analyte sensor.

[0016] In an eleventh aspect of the first embodiment, the non-continuous reference source is a blood glucose monitor.

[0017] In a twelfth aspect of the first embodiment, the non-continuous reference source is an in-vitro calibration.

[0018] In a thirteenth aspect of the first embodiment, the non-continuous reference source is an optical sensor.

[0019] In a fourteenth aspect of the first embodiment, calibrating the long term sensor data further includes using sensor data from the short term analyte sensor to update the calibration of the long term analyte sensor.

[0020] In a second embodiment, the invention includes a method of processing data from a substantially continuous analyte sensor, the method including testing an analyte sensor prior to insertion into a host to determine at least one sensor data characteristic, employing the analyte sensor in the host, receiving sensor data from the analyte sensor, and calibrating the sensor data using the sensor data characteristic.

[0021] In one aspect of the second embodiment, the substantially continuous analyte sensor is a short term sensor.

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[0022] In a second aspect of the second embodiment, the substantially continuous analyte sensor is an implantable long term sensor.

[0023] In a third aspect of the second embodiment, the method further includes receiving reference data from a reference analyte monitor, the reference data comprising at least one reference data characteristic and calibrating the sensor data using the reference data characteristic.

[0024] In a fourth embodiment, the invention includes a system for calibrating a substantially continuous analyte sensor, the system including a first substantially continuous analyte sensor, a second substantially continuous analyte sensor, a first sensor data receiving module operably linked to said first sensor and configured to receive at least one sensor data point from said first sensor, a second sensor data receiving module operably linked to said second sensor and configured to receive at least one sensor data point from said second sensor, and a processor module in data communication with the first sensor data receiving module linked to said first sensor and further in data communication with the second sensor data receiving module linked to said second sensor, said processor module configured to calibrate the sensor data from the first sensor using sensor data from the second sensor.

[0025] In one aspect of the fourth embodiment, the processor module is further configured to match at least one time-matched data point from said first analyte sensor and said second analyte sensor to form at least one calibration set for calibrating the first analyte sensor including at least one matched data pair.

[0026] In a second aspect of the fourth embodiment, the first analyte sensor is a long term substantially continuous analyte sensor and the second analyte sensor is a short term substantially continuous analyte sensor.

[0027] In a third aspect of the fourth embodiment, the first analyte sensor is a short term substantially continuous analyte sensor and the second analyte sensor is a short term substantially continuous analyte sensor.

[0028] In a fourth aspect of the fourth embodiment, the first analyte sensor is a long term substantially continuous analyte sensor and the second analyte sensor is a long term substantially continuous analyte sensor.

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[0029] In a fifth aspect of the fourth embodiment, the first analyte sensor is a short term substantially continuous analyte sensor and the second analyte sensor is a long term substantially continuous analyte sensor.

[0030] In a sixth aspect of the fourth embodiment, the first substantially continuous analyte sensor and said second substantially continuous analyte sensor are each glucose sensors.

[0031] In a fifth embodiment, the invention includes a method for simultaneously utilizing at least two analyte sensors, the method including receiving sensor data from a first analyte sensor, receiving sensor data from a second analyte sensor, and processing the sensor data from the first analyte sensor using the sensor data from the second analyte sensor.

[0032] In one aspect of the fifth embodiment, the sensor data from the second analyte sensor comprises time delay information and processing comprises modifying the sensor data from a first analyte sensor responsive to the time delay information.

[0033] In a second aspect of the fifth embodiment, processing comprises utilizing the sensor data from the second analyte sensor to assess performance of the first analyte sensor.

[0034] In a third aspect of the fifth embodiment, the first analyte sensor is a transcutaneous sensor.

[0035] In a fourth aspect of the fifth embodiment, the first analyte sensor is a wholly implantable sensor. In one embodiment of this aspect, the second analyte sensor is a transcutaneous sensor.

[0036] In a fifth aspect of the fifth embodiment, the second analyte sensor is a transcutaneous sensor.

[0037] In a sixth aspect of the fifth embodiment, the second analyte sensor is a wholly implantable sensor.

[0038] In a seventh aspect of the fifth embodiment, the processing comprises calibrating the first analyte sensor.

BRIEF DESCRIPTION OF THE DRAWINGS

[0039] Fig. 1A is a schematic of a system with one receiver where one sensor is used to calibrate another sensor.

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[0040] Fig. 1B is a schematic of a system with more than one receiver where one sensor is used to calibrate another sensor.

[0041] Fig. 1C is a schematic of a system that uses sensor data from a short term sensor to calibrate sensor data from a long term sensor.

[0042] Fig. 1D is a schematic of a system that uses two or more short term sensors to calibrate short term sensors and/or long term sensors.

[0043] Fig. 1E is a schematic of a system that uses sensor data from a long term sensor to calibrate sensor data from another long term sensor.

[0044] Fig. 1F is a schematic of a system that uses sensor data from a short term sensor to calibrate sensor data from another short term sensor.

[0045] Fig. 2 is a perspective view of a transcutaneous analyte sensor system, including an applicator, a mounting unit, and an electronics unit.

[0046] Fig. 3 is a perspective view of a mounting unit, including the electronics unit in its functional position.

[0047] Fig. 4 is an exploded perspective view of a mounting unit, showing its individual components.

[0048] Fig. 5A is an exploded perspective view of a contact subassembly, showing its individual components.

[0049] Fig. 5B is a perspective view of an alternative contact configuration.

[0050] Fig. 5C is a perspective view of another alternative contact configuration.

[0051] Figs. 5D to 5H are schematic cross-sectional views of a portion of the contact subassembly; namely, a variety of embodiments illustrating alternative sealing member configurations.

[0052] Fig. 6A is an expanded cutaway view of a proximal portion of a sensor.

[0053] Fig. 6B is an expanded cutaway view of a distal portion of a sensor.

[0054] Fig. 6C is a cross-sectional view through the sensor of Fig. 5B on line C-C, showing an exposed electroactive surface of a working electrode surrounded by a membrane system.

[0055] Fig. 7 is an exploded side view of an applicator, showing the components that facilitate sensor insertion and subsequent needle retraction.

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[0056] Figs. 8A to 8D are schematic side cross-sectional views that illustrate applicator components and their cooperating relationships.

[0057] Fig. 9A is a perspective view of an applicator and mounting unit in one embodiment including a safety latch mechanism.

[0058] Fig. 9B is a side view of an applicator matingly engaged to a mounting unit in one embodiment, prior to sensor insertion.

[0059] Fig. 9C is a side view of a mounting unit and applicator depicted in the embodiment of Fig. 9B, after the plunger subassembly has been pushed, extending the needle and sensor from the mounting unit.

[0060] Fig. 9D is a side view of a mounting unit and applicator depicted in the embodiment of Fig. 9B, after the guide tube subassembly has been retracted, retracting the needle back into the applicator.

[0061] Fig. 9E is a perspective view of an applicator, in an alternative embodiment, matingly engaged to the mounting unit after to sensor insertion.

[0062] Fig. 9F is a perspective view of the mounting unit and applicator, as depicted in the alternative embodiment of Fig. 9E, matingly engaged while the electronics unit is slidingly inserted into the mounting unit.

[0063] Fig. 9G is a perspective view of the electronics unit, as depicted in the alternative embodiment of Fig. 9E, matingly engaged to the mounting unit after the applicator has been released.

[0064] Figs. 9H and 9I are comparative top views of the sensor system shown in the alternative embodiment illustrated in Figs. 9E to 9G as compared to the embodiments illustrated in Figs. 9B to 9D.

[0065] Figs. 10A to 10C are side views of a sensor system adhered with an extensible adhesive pad in one embodiment. The figures illustrate the system prior to and during initial and continued release of the mounting unit from the host's skin.

[0066] Figs. 11A and 11B are perspective and side cross-sectional views, respectively, of a sensor system showing the mounting unit immediately following sensor insertion and release of the applicator from the mounting unit.

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[0067] Figs. 12A and 12B are perspective and side cross-sectional views, respectively, of a sensor system showing the mounting unit after pivoting the contact subassembly to its functional position.

[0068] Figs. 13A to 13C are perspective and side views, respectively, of the sensor system showing the sensor, mounting unit, and electronics unit in their functional positions.

[0069] Fig. 14 is a perspective view of a sensor system wirelessly communicating with a receiver.

[0070] Figs. 15A and 15B are perspective views of a receiver in one preferred embodiment, wherein the receiver is provided with a docking station for receiving and holding the electronics unit (from the sensor assembly) when not in use.

[0071] Fig. 16 is an exploded perspective view of one exemplary embodiment of a continuous glucose sensor

[0072] Fig.17 is a block diagram that illustrates electronics associated with a sensor system.

[0073] Fig. 18 is a graph that illustrates data smoothing of a raw data signal in one embodiment.

[0074] Fig. 19A illustrates a first embodiment wherein the receiver shows a numeric representation of the estimated analyte value on its user interface, which is described in more detail elsewhere herein.

[0075] Fig. 19B illustrates a second embodiment wherein the receiver shows an estimated glucose value and one hour of historical trend data on its user interface, which is described in more detail elsewhere herein.

[0076] Fig. 19C illustrates a third embodiment wherein the receiver shows an estimated glucose value and three hours of historical trend data on its user interface, which is described in more detail elsewhere herein.

[0077] Fig. 19D illustrates a fourth embodiment wherein the receiver shows an estimated glucose value and nine hours of historical trend data on its user interface, which is described in more detail elsewhere herein.

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[0078] Fig. 20A is a block diagram that illustrates a configuration of a medical device including a continuous analyte sensor, a receiver, and an external device.

[0079] Figs. 20B to 20D are illustrations of receiver liquid crystal displays showing embodiments of screen displays.

[0080] Fig. 21 is a flow chart that illustrates the initial calibration and data output of the sensor data in one embodiment.

[0081] Fig. 22A is a graph that illustrates a regression performed on a calibration set to obtain a conversion function in one exemplary embodiment.

[0082] Fig. 22B is a graph that illustrates one example of using prior information for slope and baseline.

[0083] Fig. 22C is a slope-baseline graph illustrating one example of using prior distribution information for determining a calibration slope and baseline.

[0084] Fig. 23 is a graph of two data pairs on a Clarke Error Grid to illustrate the evaluation of clinical acceptability in one exemplary embodiment.

[0085] Fig. 24 is a flow chart that illustrates the process of evaluation of calibration data for best calibration based on inclusion criteria of matched data pairs in one embodiment.

[0086] Fig. 25 is a flow chart that illustrates the process of evaluating the quality of the calibration in one embodiment.

[0087] Fig. 26A and Fig. 26B are graphs that illustrate an evaluation of the quality of calibration based on data association in one exemplary embodiment using a correlation coefficient.

[0088] Fig. 27 is a graph that illustrates an exemplary relationship between *in-vitro* and *in-vivo* sensitivity.

[0089] Fig. 28 is a graphical representation showing sensor data resulting from applying the *in-vitro* / *in-vivo* relationship of Fig. 27 to a substantially continuous analyte sensor and showing blood glucose readings over a period of time, from an exemplary application.

[0090] Fig. 29 is a graphical representation of glucose data from an analyte sensor and blood glucose readings over a time period from an exemplary application.

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[0091] Fig. 30 is a graphical representation of sensor data from an un-calibrated long term sensor and a calibrated short term sensor employed on the same host.

[0092] Fig. 31 is a graphical representation of sensor data from a long term sensor, that was calibrated using the short term sensor data shown in Fig. 30, prospectively applied and compared to reference glucose measurements.

[0093] Fig. 32 is a graphical representation of sensor data from a short term sensor calibrated by sensor data from another short term sensor.

[0094] Fig. 33 is a graphical representation of a regression used to calibrate sensor data shown in Fig. 32.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENT

[0095] The following description and examples illustrate a preferred embodiment of the present invention in detail. Those of skill in the art will recognize that there are numerous variations and modifications of this invention that are encompassed by its scope. Accordingly, the description of a preferred embodiment should not be deemed to limit the scope of the present invention.

Definitions

[0096] In order to facilitate an understanding of the disclosed invention, a number of terms are defined below.

[0097] The term "A/D Converter" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to hardware that converts analog signals into digital signals.

[0098] The term "analyte" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to a substance or chemical constituent in a biological fluid (for example, blood, interstitial fluid, cerebral spinal fluid, lymph fluid or urine) that can be analyzed. Analytes can include naturally occurring substances, artificial substances, metabolites, and/or reaction products. In some embodiments, the analyte for measurement by the sensing regions, devices, and methods is glucose. However, other analytes are contemplated as well, including but not limited to

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acarboxyprothrombin; acylcarnitine; adenine phosphoribosyl transferase; adenosine deaminase; albumin; alpha-fetoprotein; amino acid profiles (arginine (Krebs cycle), histidine/urocanic acid, homocysteine, phenylalanine/tyrosine, tryptophan); andrenostenedione; antipyrine; arabinitol enantiomers; arginase; benzoylecgonine (cocaine); biotinidase; biopterin; c-reactive protein; carnitine; carnosinase; CD4; ceruloplasmin; chenodeoxycholic acid; chloroquine; cholesterol; cholinesterase; conjugated 1-ß hydroxy-cholic acid; cortisol; creatine kinase; creatine kinase MM isoenzyme; cyclosporin A; d-penicillamine; de-ethylchloroquine; dehydroepiandrosterone sulfate; DNA (acetylator polymorphism, alcohol dehydrogenase, alpha 1-antitrypsin, cystic fibrosis, Duchenne/Becker muscular dystrophy, glucose-6-phosphate dehydrogenase, hemoglobin A, hemoglobin S, hemoglobin C, hemoglobin D, hemoglobin E, hemoglobin F, D-Punjab, beta-thalassemia, hepatitis B virus, HCMV, HIV-1, HTLV-1, Leber hereditary optic neuropathy, MCAD, RNA, PKU, Plasmodium vivax, sexual differentiation, 21-deoxycortisol); desbutylhalofantrine; dihydropteridine reductase; diptheria/tetanus antitoxin; erythrocyte arginase; erythrocyte protoporphyrin; esterase D; fatty acids/acylglycines; free ß-human chorionic gonadotropin; free erythrocyte porphyrin; free thyroxine (FT4); free tri-iodothyronine (FT3); fumarylacetoacetase; galactose/gal-1-phosphate; galactose-1-phosphate uridyltransferase; gentamicin; glucose-6-phosphate dehydrogenase; glutathione; glutathione perioxidase; glycocholic acid; glycosylated hemoglobin; halofantrine; hemoglobin variants; hexosaminidase A; human erythrocyte carbonic anhydrase I; 17-alpha-hydroxyprogesterone; hypoxanthine phosphoribosyl transferase; immunoreactive trypsin; lactate; lead; lipoproteins ((a), B/A-1, ß); lysozyme; mefloquine; netilmicin; phenobarbitone; phenytoin; phytanic/pristanic acid; progesterone; prolactin; prolidase; purine nucleoside phosphorylase; quinine; reverse tri-iodothyronine (rT3); selenium; serum pancreatic lipase; sissomicin; somatomedin C; specific antibodies (adenovirus, anti-nuclear antibody, anti-zeta antibody, arbovirus, Aujeszky's disease virus, dengue virus, Dracunculus medinensis, Echinococcus granulosus, Entamoeba histolytica, enterovirus, Giardia duodenalisa, Helicobacter pylori, hepatitis B virus, herpes virus, HIV-1, IgE (atopic disease), influenza virus, Leishmania donovani, leptospira, measles/mumps/rubella, Mycobacterium leprae, Mycoplasma pneumoniae, Myoglobin, Onchocerca volvulus, parainfluenza virus, Plasmodium falciparum,

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poliovirus, Pseudomonas aeruginosa, respiratory syncytial virus, rickettsia (scrub typhus), Schistosoma mansoni, Toxoplasma gondii, Trepenoma pallidium, Trypanosoma cruzi/rangeli, vesicular stomatis virus, Wuchereria bancrofti, yellow fever virus); specific antigens (hepatitis B virus, HIV-1); succinylacetone; sulfadoxine; theophylline; thyrotropin (TSH); thyroxine (T4); thyroxine-binding globulin; trace elements; transferrin; UDP-galactose-4-epimerase; urea; uroporphyrinogen I synthase; vitamin A; white blood cells; and zinc protoporphyrin. Salts, sugar, protein, fat, vitamins and hormones naturally occurring in blood or interstitial fluids can also constitute analytes in certain embodiments. The analyte can be naturally present in the biological fluid, for example, a metabolic product, a hormone, an antigen, an antibody, and the like. Alternatively, the analyte can be introduced into the body, for example, a contrast agent for imaging, a radioisotope, a chemical agent, a fluorocarbon-based synthetic blood, or a drug or pharmaceutical composition, including but not limited to insulin; ethanol; cannabis (marijuana, tetrahydrocannabinol, hashish); inhalants (nitrous oxide, amyl nitrite, butyl nitrite, chlorohydrocarbons, hydrocarbons); cocaine (crack cocaine); stimulants (amphetamines, methamphetamines, Ritalin, Cylert, Preludin, Didrex, PreState, Voranil, Sandrex, Plegine); depressants (barbituates, methaqualone, tranquilizers such as Valium, Librium, Miltown, Serax, Equanil, Tranxene); hallucinogens (phencyclidine, lysergic acid, mescaline, peyote, psilocybin); narcotics (heroin, codeine, morphine, opium, meperidine, Percocet, Percodan, Tussionex, Fentanyl, Darvon, Talwin, Lomotil); designer drugs (analogs of fentanyl, meperidine, amphetamines, methamphetamines, and phencyclidine, for example, Ecstasy); anabolic steroids; and nicotine. The metabolic products of drugs and pharmaceutical compositions are also contemplated analytes. Analytes such as neurochemicals and other chemicals generated within the body can also be analyzed, such as, for example, ascorbic acid, uric acid, dopamine, noradrenaline, 3-methoxytyramine (3MT), 3,4-dihydroxyphenylacetic acid (DOPAC), homovanillic acid (HVA), 5-hydroxytryptamine (5HT), and 5-hydroxyindoleacetic acid (FHIAA).

[0099] The term "analyte sensor" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to any mechanism (*e.g.*, enzymatic or non-enzymatic) by which analyte can be quantified. For

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example, some embodiments utilize a membrane that contains glucose oxidase that catalyzes the conversion of oxygen and glucose to hydrogen peroxide and gluconate:

$$\text{Glucose} + O_2 \rightarrow \text{Gluconate} + H_2O_2$$

Because for each glucose molecule metabolized, there is a proportional change in the co-reactant O_2 and the product H_2O_2, one can use an electrode to monitor the current change in either the co-reactant or the product to determine glucose concentration.

[0100] The term "biointerface membrane" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to a permeable membrane that can be comprised of two or more domains and constructed of materials of a few microns thickness or more, which can be placed over the sensor body to keep host cells (*e.g.*, macrophages) from gaining proximity to, and thereby damaging, the sensing membrane or forming a barrier cell layer and interfering with the transport of analyte across the tissue-device interface. The term "exit-site" as used herein is a broad term and is used in its ordinary sense, including, without limitation, the area where a medical device (for example, a sensor and/or needle) exits from the host's body.

[0101] The term "Clarke Error Grid" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to an error grid analysis, which evaluates the clinical significance of the difference between a reference glucose value and a sensor generated glucose value, taking into account (1) the value of the reference glucose measurement; (2) the value of the sensor glucose measurement; (3) the relative difference between the two values; and (4) the clinical significance of this difference. See Clarke *et al.*, "Evaluating Clinical Accuracy of Systems for Self-Monitoring of Blood Glucose", Diabetes Care, Volume 10, Number 5, September-October 1987.

[0102] The term "clinical acceptability" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to determination of the risk of inaccuracies to a patient. Clinical acceptability considers a deviation between time corresponding glucose measurements (*e.g.*, data from a glucose

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sensor and data from a reference glucose monitor) and the risk (*e.g.*, to the decision making of a diabetic patient) associated with that deviation based on the glucose value indicated by the sensor and/or reference data. One example of clinical acceptability can be 85% of a given set of measured analyte values within the "A" and "B" region of a standard Clarke Error Grid when the sensor measurements are compared to a standard reference measurement.

[0103] The term "concordant" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to being in agreement or harmony, and/or free from discord.

[0104] The term "congruence" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to the quality or state of agreeing, coinciding, or being concordant. In one example, congruence can be determined using rank correlation.

[0105] The term "Consensus Error Grid" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to an error grid analysis that assigns a specific level of clinical risk to any possible error between two time corresponding glucose measurements. The Consensus Error Grid is divided into zones signifying the degree of risk posed by the deviation. See Parkes *et al.*, "A New Consensus Error Grid to Evaluate the Clinical Significance of Inaccuracies in the Measurement of Blood Glucose", Diabetes Care, Volume 23, Number 8, August 2000.

[0106] The phrase "continuous" as it relates to analyte sensing or an analyte sensor and as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to continuously, continually, and/or intermittently (regularly or irregularly) monitoring an analyte concentration, performed, for example, about every 1 second to 20 minutes.

[0107] The term "counts" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be

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limited to a special or customized meaning), and refers without limitation to a unit of measurement of a digital signal. In one example, a raw data signal measured in counts is directly related to a voltage (converted by an A/D converter), which is directly related to current.

[0108] The terms "data association" and "data association function" as used herein are broad terms, and are to be given their ordinary and customary meaning to a person of ordinary skill in the art (and are not to be limited to a special or customized meaning), and refer without limitation to a statistical analysis of data and particularly its correlation to, or deviation from, from a particular curve. A data association function is used to show data association. For example, the data that forms that calibration set as described herein can be analyzed mathematically to determine its correlation to, or deviation from, a curve (*e.g.*, line or set of lines) that defines the conversion function; this correlation or deviation is the data association. A data association function is used to determine data association. Examples of data association functions include, but are not limited to, linear regression, non-linear mapping/regression, rank (*e.g.*, non-parametric) correlation, least mean square fit, mean absolute deviation (MAD), mean absolute relative difference. In one such example, the correlation coefficient of linear regression is indicative of the amount of data association of the calibration set that forms the conversion function, and thus the quality of the calibration.

[0109] The term "domain" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to regions of the biointerface membrane that can be layers, uniform or non-uniform gradients (for example, anisotropic) or provided as portions of the membrane.

[0110] The term "EEPROM" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to electrically erasable programmable read-only memory, which is user-modifiable read-only memory (ROM) that can be erased and reprogrammed (*e.g.*, written to) repeatedly through the application of higher than normal electrical voltage.

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[0111] The term "electrochemically reactive surface" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to the surface of an electrode where an electrochemical reaction takes place. In one example, a working electrode measures hydrogen peroxide produced by the enzyme catalyzed reaction of the analyte being detected reacts creating an electric current (for example, detection of glucose analyte utilizing glucose oxidase produces H_2O_2 as a by product, H_2O_2 reacts with the surface of the working electrode producing two protons ($2H^+$), two electrons ($2e^-$) and one molecule of oxygen (O_2) which produces the electronic current being detected). In the case of the counter electrode, a reducible species, for example, O_2 is reduced at the electrode surface in order to balance the current being generated by the working electrode.

[0112] The term "electronic connection" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to any electronic connection known to those in the art that can be utilized to interface the sensor head electrodes with the electronic circuitry of a device such as mechanical (*e.g.*, pin and socket) or soldered.

[0113] The term "electronic connection" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to any electronic connection known to those in the art that can be utilized to interface the sensing region electrodes with the electronic circuitry of a device such as mechanical (for example, pin and socket) or soldered.

[0114] The term "ex *vivo* portion" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to the portion of the device (for example, sensor) adapted to remain and/or exist outside the living body of a host.

[0115] The term "host" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be

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limited to a special or customized meaning), and refers without limitation to mammals, particularly humans.

[0116] The term "*in vivo* portion" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to the portion of the device (for example, sensor) adapted for insertion and/or existence within the living body of a host.

[0117] The term "jitter" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to uncertainty or variability of waveform timing, which can be cause by ubiquitous noise caused by a circuit and/or environmental effects; jitter can be seen in amplitude, phase timing, or the width of the signal pulse.

[0118] The term "long term" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to the lifespan of an analyte sensor. For example, the term "long term analyte sensor" is used herein relative to the term "short term analyte sensor" and designates an analyte sensor with a lifespan that is more than the lifespan of the short term analyte sensor. For example, a short term analyte sensor can have a lifespan of about less than about an hour to about three weeks, and a long term analyte sensor has a corresponding lifespan of longer than three weeks.

[0119] The term "matched data pairs" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to reference data (*e.g.*, one or more reference analyte data points) matched with substantially time corresponding sensor data (*e.g.*, one or more sensor data points).

[0120] The term "microprocessor" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to a computer

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system or processor designed to perform arithmetic and logic operations using logic circuitry that responds to and processes the basic instructions that drive a computer.

[0121] The phrase "noncontinuous" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to single point analyte monitoring of an analyte concentration, for example, performed using blood glucose meters (*e.g.*, using finger stick blood samples) and optical measuring techniques (*e.g.*, near infrared spectroscopy, infrared spectroscopy, raman spectroscopy, photoacoustic spectroscopy, scatter and polarization changes), etc.

[0122] The terms "operable connection," "operably connected," and "operably linked" as used herein are broad terms, and are to be given their ordinary and customary meaning to a person of ordinary skill in the art (and are not to be limited to a special or customized meaning), and refer without limitation to one or more components being linked to another component(s) in a manner that allows transmission of signals between the components, *e.g.*, wired or wirelessly. For example, one or more electrodes can be used to detect the amount of analyte in a sample and convert that information into a signal; the signal can then be transmitted to an electronic circuit means. In this case, the electrode is "operably linked" to the electronic circuitry.

[0123] The term "oxygen antenna domain" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to a domain composed of a material that has higher oxygen solubility than aqueous media so that it concentrates oxygen from the biological fluid surrounding the biointerface membrane. The domain can then act as an oxygen reservoir during times of minimal oxygen need and has the capacity to provide on demand a higher oxygen gradient to facilitate oxygen transport across the membrane. This enhances function in the enzyme reaction domain and at the counter electrode surface when glucose conversion to hydrogen peroxide in the enzyme domain consumes oxygen from the surrounding domains. Thus, this ability of the oxygen antenna domain to apply a higher flux of oxygen to critical domains when needed improves overall sensor function.

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[0124] The term "quality of calibration" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to the statistical association of matched data pairs in the calibration set used to create the conversion function. For example, an R-value can be calculated for a calibration set to determine its statistical data association, wherein an R-value greater than 0.79 determines a statistically acceptable calibration quality, while an R-value less than 0.79 determines statistically unacceptable calibration quality.

[0125] The term "raw data signal" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to an analog or digital signal directly related to the measured analyte from the analyte sensor. In one example, the raw data signal is digital data in "counts" converted by an A/D converter from an analog signal (*e.g.*, voltage or amps) representative of an analyte concentration.

[0126] The term "RF transceiver" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to a radio frequency transmitter and/or receiver for transmitting and/or receiving signals.

[0127] The term "R-value" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to one conventional way of summarizing the correlation of data; that is, a statement of what residuals (*e.g.*, root mean square deviations) are to be expected if the data are fitted to a straight line by the a regression.

[0128] The term "sensing membrane" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to a permeable or semi-permeable membrane that can be comprised of two or more domains and constructed of materials of a few microns thickness or more, which are permeable to oxygen and can or can not be permeable to an analyte of interest. In one example, the sensing membrane

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comprises an immobilized glucose oxidase enzyme, which enables an electrochemical reaction to occur to measure a concentration of glucose.

[0129] The term "sensing region" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to the region of a monitoring device responsible for the detection of a particular analyte. The sensing region generally comprises a non-conductive body, a working electrode (anode), a reference electrode (optional), and/or a counter electrode (cathode) passing through and secured within the body forming electrochemically reactive surfaces on the body and an electronic connective means at another location on the body, and a multi-domain membrane affixed to the body and covering the electrochemically reactive surface.

[0130] The term "sensor head" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to the region of a monitoring device responsible for the detection of a particular analyte. In one example, a sensor head comprises a non-conductive body, a working electrode (anode), a reference electrode and a counter electrode (cathode) passing through and secured within the body forming an electrochemically reactive surface at one location on the body and an electronic connective means at another location on the body, and a sensing membrane affixed to the body and covering the electrochemically reactive surface. The counter electrode has a greater electrochemically reactive surface area than the working electrode. During general operation of the sensor a biological sample (*e.g.*, blood or interstitial fluid) or a portion thereof contacts (directly or after passage through one or more membranes or domains) an enzyme (*e.g.*, glucose oxidase); the reaction of the biological sample (or portion thereof) results in the formation of reaction products that allow a determination of the analyte (*e.g.*, glucose) level in the biological sample. In some embodiments, the sensing membrane further comprises an enzyme domain (*e.g.,* and enzyme layer), and an electrolyte phase (*e.g.*, a free-flowing liquid phase comprising an electrolyte-containing fluid described further below).

[0131] The term "short term" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be

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limited to a special or customized meaning), and refers without limitation to the lifespan of an analyte sensor. For example, the term "short term analyte sensor" is used herein relative to the term "long term analyte sensor" and designates an analyte sensor with a lifespan less than the lifespan of a long term analyte sensor. For example, a short term analyte sensor can have a lifespan of less than an hour to about three weeks, and a long term analyte sensor has a corresponding lifespan of longer than three weeks.

[0132] The term "SRAM" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to static random access memory (RAM) that retains data bits in its memory as long as power is being supplied.

[0133] The term "substantially" as used herein is a broad term, and is to be given its ordinary and customary meaning to a person of ordinary skill in the art (and is not to be limited to a special or customized meaning), and refers without limitation to being largely but not necessarily wholly that which is specified.

[0134] In the disclosure which follows, the following abbreviations apply: Eq and Eqs (equivalents); mEq (milliequivalents); M (molar); mM (millimolar) μM (micromolar); N (Normal); mol (moles); mmol (millimoles); μmol (micromoles); nmol (nanomoles); g (grams); mg (milligrams); μg (micrograms); Kg (kilograms); L (liters); mL (milliliters); dL (deciliters); μL (microliters); cm (centimeters); mm (millimeters); μm (micrometers); nm (nanometers); h and hr (hours); min. (minutes); s and sec. (seconds); °C (degrees Centigrade).

Overview

[0135] Some of the aspects of the invention relate to calibrating a substantially continuous analyte sensor (*e.g.*, a subcutaneous, transdermal (*e.g.*, transcutaneous), or intravascular device) using sensor data from another substantially continuous analyte sensor. The analyte sensor can be any type of sensor that measures a concentration of an analyte of interest or a substance indicative of the concentration or presence of the analyte. The analyte sensors can be short or long term sensors. For example, in some embodiments, the sensor data from a short term substantially continuous analyte sensor is used to calibrate the sensor data from another short term substantially continuous analyte sensor. In another

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embodiment, the sensor data from a short term substantially continuous analyte sensor is used to calibrate the sensor data from a long term substantially continuous analyte sensor. In one embodiment, the sensor data from a long term substantially continuous analyte sensor is used to calibrate the sensor data from another long term substantially continuous analyte sensor. In other embodiments, the sensor data from a long term substantially continuous analyte sensor is used to calibrate the sensor data from a short term substantially continuous analyte sensor. The analyte sensors can use any method of analyte-sensing, including enzymatic, chemical, physical, electrochemical, spectrophotometric, polarimetric, calorimetric, radiometric, or the like.

[0136] Figure 1A is a schematic illustrating one embodiment of a system where data from one is used to calibrate another sensor. The system includes two substantially continuous analyte sensors, $sensor_A$ and $sensor_B$, configured to provide sensor data to a receiver. $Sensor_A$ and $sensor_B$ can be any substantially continuous analyte sensors capable of determining the level of an analyte in the body, for example glucose, oxygen, lactase, insulin, hormones, cholesterol, medicaments, viruses, or the like. $Sensor_A$ and $sensor_B$ can be short term or long term sensors. $Sensor_A$ and $sensor_B$ detect information relating to an analyte in the host **6** and transmit the information (*e.g.*, sensor data) to the receiver **8**. The transmission of the sensor data can be through a wire or wireless communication channel. In this embodiment, $sensor_A$ and $sensor_B$ measure the same analyte (*e.g.*, glucose). If there is correlation and/or a predictive relationship between the sensor data from $sensor_A$ and $sensor_B$, the sensor data from one analyte sensor can be used to calibrate the sensor data from the other analyte sensor. If $sensor_A$ and $sensor_B$ measure two different analytes but there is correlation and/or predictive behavior between the sensor data for the two different analytes, the sensor data from one analyte sensor can be used to calibrate the sensor data from the other analyte sensor. In such an embodiment, the receiver is configured to receive the sensor data from both sensors, process the data, and calibrate one of the sensors, using *e.g.*, data processing and calibration techniques as described herein and other suitable sensor calibration techniques.

[0137] Figure 1B is a schematic illustrating another embodiment of a system where data from one sensor is used to calibrate another sensor. This embodiment also

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includes two substantially continuous analyte sensors, $sensor_C$ and $sensor_D$, that detect information relating to an analyte in the host **6** and transmit the information to a receiver. $Sensor_A$ and $sensor_B$ can be short term or long term sensors. In this embodiment, $sensor_C$ transmits sensor data to $receiver_A$ and $sensor_D$ transmits sensor data to $receiver_B$. $Receiver_A$ and $receiver_B$ are configured to communicate information with each other (*e.g.*, analyte measurement information, corresponding timestamp of analyte measurement, etc.) so that the sensor data from one sensor can be used to calibrate the sensor data from the other. Here, for example, so long as the receivers can communicate, the communication protocol, content, and data format for one sensor and its receiver can be different than for the other sensor and its receiver. Some of the embodiments described and illustrated herein, *e.g.*, Figures 1C and 1E, include one receiver that can receive data from one or more sensors. However, in such embodiments, additional receivers can be employed (*e.g.*, one receiver for each sensor).

[0138] Figure 1C is a schematic illustrating an embodiment of a system that calibrates a long term sensor using sensor data from a short term sensor. A long term analyte sensor can have an initial instability time period during which it is unstable for environmental, physiological, or other reasons. For example, for a long term analyte sensor implanted subcutaneously, its stabilization can be dependent upon the maturity of the tissue ingrowth around and within the sensor (see, *e.g.*, U.S. Publication No. US-2005-0112169-A1). Accordingly, determination of sensor stability can include waiting a time period (*e.g.*, an implantable sensor is known to require a time period for tissue, and a transdermal (*e.g.*, transcutaneous) sensor is known to require time to equilibrate the sensor with the user's tissue); in some embodiments, this waiting period is from about one minute to about three weeks. This waiting period can be predetermined by prior testing the sensor under similar conditions, and/or by analysis of the data from the sensor to determine that the sensor is stable. In this embodiment, the short term sensor measures the analyte and provides data to a receiver during the waiting period. Once the long term sensor is deemed to be stable, the data from the long term sensor requires calibration to provide an accurate value. Where the sensor data from the short term sensor has a correlative or predictive relationship with the sensor data from the long term sensor, the data from the short term sensor can be used to calibrate the long term sensor. Calibration of the sensor data from a long term sensor using sensor

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data provided by the short term sensor facilitates the use of the long term sensor data sooner and/or reduces or obviates the need to calibrate the long term sensor with single point calibration techniques, *e.g.*, using finger stick blood samples, optical measuring techniques etc.

[0139] The sensor data from a long term sensor can change over time, due to, for example, a decrease in its sensitivity. In one embodiment, a long term sensor can be re-calibrated by employing a short term sensor on the same host as the long term sensor and then using the sensor data from the short term sensor to calibrate the sensor data from the long term sensor. For example, on a host having a long term (*e.g.*, wholly implantable) sensor, a substantially continuous short term (*e.g.*, transcutaneous) analyte sensor can also be employed. A short term sensor taking a measurement every five minutes provides sensor data for 288 measurements in a day. The receiver translates the short sensor data to estimate analyte values, which are used to re-calibrate the long term sensor using *e.g.*, data processing techniques described herein, including data processing techniques described in reference to Figs. 16 and 17. As another example, a short term sensor can be used to trouble shoot a long term sensor, for example, when the long term sensor is wholly implanted in the host and experiences malfunctioning. In such a situation, a short term sensor can be inserted into the host (*e.g.*, a transcutaneous sensor) and the data compared to that of the long term sensor (*e.g.*, wholly implantable sensor) to diagnose potential problems with the long term sensor, for example, signal noise due to oxygen deficiencies or enzyme deficiency. In alternative embodiments, short and/or long term sensors can be used to diagnose problems in other short and/or long term sensors.

[0140] Figure 1D is a schematic illustrating an embodiment of a system that calibrates a long term sensor using sensor data from one or more short term sensors. In certain circumstances a single short term sensor is not able to provide sensor data for the entire waiting period of the long term sensor. For example, the lifespan of the short term sensor may be less than the requisite waiting period. Accordingly, the use of two or more short term sensors can be used to provide sensor data for the entire waiting period for a long term sensor if the waiting period is greater than three days.

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[0141] In Figure 1D, two or more short term sensors are used to provide analyte measurements during the waiting period of a long term sensor. For example, a short term sensor A is used to provide analyte measurements to a receiver for its usable lifespan. Prior to the end of the lifespan of sensor A, short term sensor B is employed to also provide analyte measurements to a receiver for the host **6**, so that sensor A and sensor B are both providing sensor data during an overlapping time period. If the waiting period of the long term sensor is longer than the period that can be covered by sensor A and B, another short-term sensor can be employed prior to the end of the lifespan of sensor B. Substitution of short term sensors in an overlapping manner can be repeated until the expiration of the waiting period. Once the long term sensor is stable, it can be calibrated using sensor data from one or more of the short term sensors. Alternatively, one or more short-term sensor may be implanted near the time when the long term sensor is expected to start working rather than having the short term sensors implanted during the entire waiting period of the long term sensor.

[0142] In one embodiment, where two or more short term sensors are used on the same host, the sensor data from one short term sensor can be used to calibrate the other short term sensor. For example, in the above-described embodiment, the receiver can use the sensor data from sensor A to calibrate the sensor data from B, which can be used to calibrate each successive short term sensor employed on the host **6**.

[0143] In some embodiments, one or more of the short term sensors are calibrated *in-vitro*, *e.g.*, by a benchtop calibration process that predetermines the information particular to the sensor. In such embodiments, the series of short term sensors need not overlap each other for calibration purposes. In one example, a benchtop calibrated short term sensor can be used to calibrate a long term implantable glucose sensor so that manual glucose measurements (SMBG) are not needed. According to one embodiment of a sensor, the sensing mechanism of an enzyme-electrode based glucose sensor depends on two phenomena that are linear with glucose concentration: (1) diffusion of glucose through a membrane system situated between interstitial fluid and the electrode surface, and (2) an enzymatic reaction within the membrane system. Because of this linearity, calibration/recalibration of the sensor consists of solving the line

$$y = mx + b$$

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where y denotes the sensor signal (in units of A/D counts), x the estimated glucose concentration (mg/dl), m the sensor sensitivity to glucose (counts/mg/dl), and b the baseline signal (counts).

[0144] Typically, calibration requires at least two independent, paired measurements (x_1, y_1; x_2, y_2) to solve for m and b and thus allow glucose estimation when only the sensor signal, y is available. However, if prior information is available for m and/or b, then calibration can occur with fewer paired measurements. In one embodiment of a semi-benchtop calibration technique, prior information (*e.g.*, benchtop tests) determine the sensitivity of the sensor and/or the baseline signal of the sensor by analyzing sensor data from measurements taken by the sensor of a controlled solution (*e.g.*, prior to inserting the sensor). If there exists a predictive relationship between benchtop sensor parameters and *in-vivo* parameters, then this information can be used by the calibration procedure. For example, if a predictive relationship exists between benchtop sensitivity and in-vivo sensitivity, $m \approx f(m_{benchtop})$, then the predicted m can be used, along with a single matched pair, to solve for b ($b = y - mx$, semi-benchtop calibration). If in addition, b can be assumed to be 0, for example with a biointerface electrode configuration, then both m and b are known *a priori*, matched pairs are not needed for calibration, and the sensor can be completely benchtop calibrated.

[0145] Other methods for using information obtained prior to sensor insertion in sensor calibration are discussed in more detail elsewhere herein.

[0146] In some embodiments, the long term sensor can be benchtop calibrated and then once implanted, the calibration of the data from the long term sensor can be adjusted using additional reference data, for example, reference data from a short term sensor. Typically for a long term sensor, as its biointerface matures, its m and b change. This change (a 10% change in signal amplitude, for example) over a period of time (two weeks) can be solved for with periodic use of a short term sensor as follows: a user implanted with a long term sensor inserts a short term sensor, the short term sensor glucose values (if collected at 5 min intervals, there are 288 per day) are used as the reference values, x, to which the long term sensor values, y, can be calibrated. This procedure would allow for accurate estimates of m, b, and time-lag (assuming the time-lag of the short term sensor signal relative to blood glucose). Accordingly, reference data from a short term glucose sensor can be used in the

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initial calibration process described herein and shown in Figure 21, and the update calibration process described herein and shown in Figure 24.

[0147] In the embodiment illustrated in Figure 1E, the sensor data for one long term sensor is used to calibrate the sensor data from another long term sensor. Long term sensor A can be employed on the host **6** and calibrated using, *e.g.*, data from a short term sensor, a long term sensor, or another calibration technique. Prior to the end of the lifespan of long term sensor A, long term sensor B can be implanted into the host **6**. Once long term sensor B is stable, sensor data from long term sensor A can be used to calibrate the sensor data from long tem sensor B. This calibration process can be repeated for additional long term sensors employed on host **6**, so that a series of long term sensors can be employed, with the sensor data from each newly employed sensor being calibrated using sensor data from the previously employed long term sensor. By this means, a patient can have continuity of data while only undergoing one procedure for each long term implant, for example, once per year. In one example, Sensor A is implanted at time 0. After 11 months, Sensor B is implanted, and Sensor A is left in place. During the next month, Sensor B starts up and is calibrated using data from sensor A. At time 23 months, Sensor C is implanted and Sensor A is removed. Sensor B is used to calibrate Sensor C, and so forth for as long as the patient wishes to continue placing new sensors. Other time frames of sensor implantation and overlap are also possible.

[0148] Figure 1F is a schematic illustrating an embodiment of a system that calibrates a short term sensor using sensor data from a short term sensor. It is known that some transdermal (*e.g.*, transcutaneous) sensors require time to equilibrate the sensor with the user's tissue (*e.g.*, due to electrochemical break-in). For example, when a first short term sensor's lifespan is nearing its end, a second short term sensor can be implanted into the user's tissue (*e.g.*, at another location) to allow that sensor to equilibrate while the first short term sensor is still providing data. In addition to providing data during the equilibration time of the second short term sensor (thereby allowing data continuity), the first short term sensor can provide additional data, including calibration information, time lag information, drift information, and the like, to the second short term sensor to increase its intelligence and enhance its performance.

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[0149] The sensors of the preferred embodiments can be employed sequentially and/or simultaneously (*e.g.*, redundant sensors). For example, one or more short or long term sensors can be used simultaneously in order to compare, trouble-shoot, and/or provide increased data to the host. In one situation, by providing at least two redundant sensors, transient problems experienced by one sensor can be negated by the use of the other sensor.

[0150] An analyte sensor uses any known method, including invasive, minimally invasive, and non-invasive sensing techniques, to provide an output signal indicative of the concentration of the analyte of interest. The output signal is typically a raw signal that is used to provide a value that can be used for calibrating another analyte sensor or an analyte sensor used in another application. Appropriate smoothing, calibration, and evaluation methods can be applied to the raw signal and/or system as a whole to provide relevant and acceptable analyte data for calibrating another analyte sensor or the same analyte sensor used in another application.

[0151] The analyte sensor(s) useful with the preferred embodiments can be any device capable of measuring the concentration of an analyte of interest. One exemplary embodiment is described below, which calibrates a long term implantable glucose sensor based on data from a short term implantable glucose sensor. However, it can be understood that the devices and methods described herein can be applied to any device capable of detecting a concentration of analyte of and providing an output signal that represents the concentration of the analyte for use in calibrating another sensor.

Short Term Sensor

[0152] In one embodiment, the short term sensors for use as described herein include a transcutaneous analyte sensor system that includes an applicator for inserting the transcutaneous (transdermal) analyte sensor under a host's skin. The sensor system includes a sensor for sensing the analyte, wherein the sensor is associated with a mounting unit adapted for mounting on the skin of the host. The mounting unit houses the electronics unit associated with the sensor and is adapted for fastening to the host's skin. In certain embodiments, the system further includes a receiver for receiving and/or processing sensor data.

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[0153] Fig. 2 is a perspective view of a transcutaneous analyte sensor system **10.** In the preferred embodiment of a system as depicted in Fig. 2, the sensor includes an applicator **12**, a mounting unit **14**, and an electronics unit **16**. The system can further include a receiver **158**, such as is described in more detail with reference to Fig. 14.

[0154] The mounting unit (housing) **14** includes a base **24** adapted for mounting on the skin of a host, a sensor adapted for transdermal (*e.g.*,transcutaneous) insertion through the skin of a host (see Fig. 5A), and one or more contacts **28** configured to provide secure electrical contact between the sensor and the electronics unit **16**. The mounting unit **14** is designed to maintain the integrity of the sensor in the host so as to reduce or eliminate translation of motion between the mounting unit, the host, and/or the sensor.

[0155] In one embodiment, an applicator **12** is provided for inserting the sensor **32** through the host's skin at the appropriate insertion angle with the aid of a needle (see Figs. 7 through 9), and for subsequent removal of the needle using a continuous push-pull action. Preferably, the applicator comprises an applicator body **18** that guides the applicator components (see Figs. 7 through 9) and includes an applicator body base **60** configured to mate with the mounting unit **14** during insertion of the sensor into the host. The mate between the applicator body base **60** and the mounting unit **14** can use any known mating configuration, for example, a snap-fit, a press-fit, an interference-fit, or the like, to discourage separation during use. One or more release latches **30** enable release of the applicator body base **60**, for example, when the applicator body base **60** is snap fit into the mounting unit **14**.

[0156] The electronics unit **16** includes hardware, firmware, and/or software that enable measurement of levels of the analyte via the sensor. For example, the electronics unit **16** can comprise a potentiostat, a power source for providing power to the sensor, other components useful for signal processing, and preferably an RF module for transmitting data from the electronics unit **16** to a receiver. Electronics can be affixed to a printed circuit board (PCB), or the like, and can take a variety of forms. For example, the electronics can take the form of an integrated circuit (IC), such as an Application-Specific Integrated Circuit (ASIC), a microcontroller, or a processor. Preferably, electronics unit **16** houses the sensor electronics, which comprise systems and methods for processing sensor analyte data.

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Examples of systems and methods for processing sensor analyte data are described in more detail in U.S. Publication No. US-2005-0027463-A1.

[0157] After insertion of the sensor using the applicator **12**, and subsequent release of the applicator **12** from the mounting unit **14** (see Figs. 9B to 9D), the electronics unit **16** is configured to releasably mate with the mounting unit **14** in a manner similar to that described above with reference to the applicator body base **60**. The electronics unit **16** includes contacts on its backside (not shown) configured to electrically connect with the contacts **28**, such as are described in more detail with reference to Figs. 3 through 5. In one embodiment, the electronics unit **16** is configured with programming, for example initialization, calibration reset, failure testing, or the like, each time it is initially inserted into the mounting unit **14** and/or each time it initially communicates with the sensor **32**.

Mounting Unit

[0158] Fig. 3 is a perspective view of a sensor system of a preferred embodiment, shown in its functional position, including a mounting unit and an electronics unit matingly engaged therein. Figs. 13A to 13C illustrate the sensor is its functional position for measurement of an analyte concentration in a host.

[0159] In preferred embodiments, the mounting unit **14**, also referred to as a housing, comprises a base **24** adapted for fastening to a host's skin. The base can be formed from a variety of hard or soft materials, and preferably comprises a low profile for minimizing protrusion of the device from the host during use. In some embodiments, the base **24** is formed at least partially from a flexible material, which is believed to provide numerous advantages over conventional transcutaneous sensors, which, unfortunately, can suffer from motion-related artifacts associated with the host's movement when the host is using the device. For example, when a transcutaneous analyte sensor is inserted into the host, various movements of the sensor (for example, relative movement between the *in vivo* portion and the *ex vivo* portion, movement of the skin, and/or movement within the host (dermis or subcutaneous)) create stresses on the device and can produce noise in the sensor signal. It is believed that even small movements of the skin can translate to discomfort and/or motion-related artifact, which can be reduced or obviated by a flexible or articulated base. Thus, by providing flexibility and/or articulation of the device against the host's skin,

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better conformity of the sensor system **10** to the regular use and movements of the host can be achieved. Flexibility or articulation is believed to increase adhesion (with the use of an adhesive pad) of the mounting unit **14** onto the skin, thereby decreasing motion-related artifact that can otherwise translate from the host's movements and reduced sensor performance.

[0160] Fig. 4 is an exploded perspective view of a sensor system of a preferred embodiment, showing a mounting unit, an associated contact subassembly, and an electronics unit. In some embodiments, the contacts **28** are mounted on or in a subassembly hereinafter referred to as a contact subassembly **26** (see Fig. 5A), which includes a contact holder **34** configured to fit within the base **24** of the mounting unit **14** and a hinge **38** that allows the contact subassembly **26** to pivot between a first position (for insertion) and a second position (for use) relative to the mounting unit **14**, which is described in more detail with reference to Figs. 11 and 12. The term "hinge" as used herein is a broad term and is used in its ordinary sense, including, without limitation, to refer to any of a variety of pivoting, articulating, and/or hinging mechanisms, such as an adhesive hinge, a sliding joint, and the like; the term hinge does not necessarily imply a fulcrum or fixed point about which the articulation occurs.

[0161] In certain embodiments, the mounting unit **14** is provided with an adhesive pad **8**, preferably disposed on the mounting unit's back surface and preferably including a releasable backing layer **9**. Thus, removing the backing layer **9** and pressing the base portion **24** of the mounting unit onto the host's skin adheres the mounting unit **14** to the host's skin. Additionally or alternatively, an adhesive pad can be placed over some or all of the sensor system after sensor insertion is complete to ensure adhesion, and optionally to ensure an airtight seal or watertight seal around the wound exit-site (or sensor insertion site) (not shown). Appropriate adhesive pads can be chosen and designed to stretch, elongate, conform to, and/or aerate the region (*e.g.*, host's skin).

[0162] In preferred embodiments, the adhesive pad **8** is formed from spun-laced, open- or closed-cell foam, and/or non-woven fibers, and includes an adhesive disposed thereon, however a variety of adhesive pads appropriate for adhesion to the host's skin can be used, as is appreciated by one skilled in the art of medical adhesive pads. In some embodiments, a double-sided adhesive pad is used to adhere the mounting unit to the host's

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skin. In other embodiments, the adhesive pad includes a foam layer, for example, a layer wherein the foam is disposed between the adhesive pad's side edges and acts as a shock absorber.

[0163] In some embodiments, the surface area of the adhesive pad **8** is greater than the surface area of the mounting unit's back surface. Alternatively, the adhesive pad can be sized with substantially the same surface area as the back surface of the base portion. Preferably, the adhesive pad has a surface area on the side to be mounted on the host's skin that is greater than about 1, 1.25, 1.5, 1.75, 2, 2.25, or 2.5 times the surface area of the back surface **25** of the mounting unit base **24**. Such a greater surface area can increase adhesion between the mounting unit and the host's skin, minimize movement between the mounting unit and the host's skin, and/or protect the wound exit-site (sensor insertion site) from environmental and/or biological contamination. In some alternative embodiments, however, the adhesive pad can be smaller in surface area than the back surface assuming a sufficient adhesion can be accomplished.

[0164] In some embodiments, the adhesive pad **8** is substantially the same shape as the back surface **25** of the base **24**, although other shapes can also be advantageously employed, for example, butterfly-shaped, round, square, or rectangular. The adhesive pad backing can be designed for two-step release, for example, a primary release wherein only a portion of the adhesive pad is initially exposed to allow adjustable positioning of the device, and a secondary release wherein the remaining adhesive pad is later exposed to firmly and securely adhere the device to the host's skin once appropriately positioned. The adhesive pad is preferably waterproof. Preferably, a stretch-release adhesive pad is provided on the back surface of the base portion to enable easy release from the host's skin at the end of the useable life of the sensor, as is described in more detail with reference to Figs. 10A to 10C.

[0165] In some circumstances, it has been found that a conventional bond between the adhesive pad and the mounting unit may not be sufficient, for example, due to humidity that can cause release of the adhesive pad from the mounting unit. Accordingly, in some embodiments, the adhesive pad can be bonded using a bonding agent activated by or accelerated by an ultraviolet, acoustic, radio frequency, or humidity cure. In some embodiments, a eutectic bond of first and second composite materials can form a strong

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adhesion. In some embodiments, the surface of the mounting unit can be pretreated utilizing ozone, plasma, chemicals, or the like, in order to enhance the bondability of the surface.

[0166] A bioactive agent is preferably applied locally at the insertion site (exit-site) prior to or during sensor insertion. Suitable bioactive agents include those which are known to discourage or prevent bacterial growth and infection, for example, anti-inflammatory agents, antimicrobials, antibiotics, or the like. It is believed that the diffusion or presence of a bioactive agent can aid in prevention or elimination of bacteria adjacent to the exit-site. Additionally or alternatively, the bioactive agent can be integral with or coated on the adhesive pad, or no bioactive agent at all is employed.

[0167] Fig. 5A is an exploded perspective view of the contact subassembly **26** in one embodiment, showing its individual components. Preferably, a watertight (waterproof or water-resistant) sealing member **36**, also referred to as a sealing material or seal, fits within a contact holder **34** and provides a watertight seal configured to surround the electrical connection at the electrode terminals within the mounting unit in order to protect the electrodes (and the respective operable connection with the contacts of the electronics unit **16**) from damage due to moisture, humidity, dirt, and other external environmental factors. In one embodiment, the sealing member **36** is formed from an elastomeric material, such as silicone; however, a variety of other elastomeric or sealing materials can also be used, for example, silicone-polyurethane hybrids, polyurethanes, and polysulfides. Preferably, the sealing member is configured to compress within the contact subassembly when the electronics unit is mated to the mounting unit. In some embodiments, the sealing member **36** comprises a self-lubricating material, for example, self-lubricating silicone or other materials impregnated with or otherwise comprising a lubricant configured to be released during use. In some embodiments, the sealing member **36** includes a self-sealing material, for example, one that leaches out a sealant such as a silicone oil. In some embodiments, bumps, ridges, or other raised portions (not shown), can be added to a component of the sensor system, such as to the contact subassembly **26** (*e.g.*, housing adjacent to the sealing member), electronics unit **16** and/or sealing member **36** to provide additional compression and improve the seal formed around the contacts **28** and/or sensor **32** when the contacts **28** are mated to the sensor electronics.

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[0168] Preferably, the sealing member is selected using a durometer. A durometer is an instrument used for measuring the indentation hardness of rubber, plastics, and other materials. Durometers are built to various standards from ASTM, DIN, JIS, and ISO. The hardness of plastics is most commonly measured by the Shore (Durometer) test or Rockwell hardness test. Both methods measure the resistance of plastics toward indentation and provide an empirical hardness value. Shore Hardness, using either the Shore A or Shore D scale, is the preferred method for rubbers/elastomers and is also commonly used for softer plastics such as polyolefins, fluoropolymers, and vinyls. The Shore A scale is used for softer rubbers while the Shore D scale is used for harder ones. In preferred embodiments, the Shore A scale is employed in connection with selection of a sealing member.

[0169] The Shore hardness is measured with a Durometer and sometimes referred to as "Durometer hardness." The hardness value is determined by the penetration of the Durometer indenter foot into the sample. Because of the resilience of rubbers and plastics, the indentation reading may change over time, so the indentation time is sometimes reported along with the hardness number. The ASTM test method designation for the Shore Durometer hardness test is ASTM D2240. The results obtained from this test are a useful measure of relative resistance to indentation of various grades of polymers.

[0170] Using a durometer in the selection of a sealing member enables selection of a material with optimal durometer hardness that balances the advantages of a lower durometer hardness with the advantages of a higher durometer hardness. For example, when a guide tube (*e.g.*, cannula) is utilized to maintain an opening in a silicone sealing member prior to sensor insertion, a compression set (*e.g.*, some retention of a compressed shape caused by compression of the material over time) within the silicone can result due to compression over time of the sealing member by the guide tube. Compression set can also result from certain sterilization procedures (*e.g.*, radiation sterilization such as electron beam or gamma radiation). Unfortunately, in some circumstances, the compression set of the sealing member may cause gaps or incompleteness of contact between the sealing member and the contacts and/or sensor. In general, a lower durometer hardness provides a better conformation (*e.g.*, seal) surrounding the contacts and/or sensor as compared to a higher durometer hardness. Additionally, a lower durometer hardness enables a design wherein less

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force is required to create the seal (*e.g.*, to snap the electronics unit into the mounting unit, for example, as in the embodiment illustrated in Fig. 5A) as compared to a higher durometer hardness, thereby increasing the ease of use of the device. However, the benefits of a lower durometer hardness silicone material must be balanced with potential disadvantages in manufacturing. For example, lower durometer hardness silicones are often produced by compounding with a silicone oil. In some circumstances, it is believed that some silicone oil may leach or migrate during manufacture and/or sterilization, which may corrupt aspects of the manufacturing process (*e.g.*, adhesion of glues and/or effectiveness of coating processes). Additionally, a higher durometer hardness material generally provides greater stability of the material, which may reduce or avoid damage to the sealing member cause by pressure or other forces.

[0171] It is generally preferred that a sealing member **36** with a durometer hardness of from about 5 to about 80 Shore A is employed, more preferably a durometer hardness of from about 10 to about 50 Shore A, and even more preferably from about 20 to about 50 Shore A. In one embodiment, of a transcutaneous analyte sensor, the sealing member is fabricated using a silicone of about 20 Shore A to maximize the conformance of the seal around the contacts and/or sensor while minimizing the force required to compress the silicone for that conformance. In another embodiment, the sealing member is formed from a silicone of about 50 Shore A so as to provide increased strength of the sealing member (*e.g.*, its resistance to compression). While a few representative examples have been provided above, one skilled in the art appreciates that higher or lower durometer hardness sealing material may also be suitable for use.

[0172] In one alternative embodiment, a sealing member **36** with a durometer hardness of about 10 Shore A is used. In this embodiment, the sealing material tends to "weep" out, further increasing conformance of the seal against the adjacent parts. In another alternative embodiment, a sealing material with a durometer hardness of about 0 (zero) Shore A is used as a sealant and/or in combination with a sealant, also referred to as a lubricant, which in some embodiments is a hydrophobic fluid filling material such as a grease, silicone, petroleum jelly, or the like. Preferably, the sensor and/or contacts are encased in a housing that contains the sealant, causing the material to "squeeze" around contacts and/or sensor.

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Any suitable hydrophobic fluid filling material can be employed. Especially preferred are synthetic or petroleum hydrocarbon-based materials, silicone-based materials, ester-based greases, and other pharmaceutical-grade materials.

[0173] In some embodiments, the sealing member can comprise a material that has been modified to enhance the desirable properties of the sealing member **36**. For example, one or more filler materials or stiffening agents such as glass beads, polymer beads, composite beads, beads comprising various inert materials, carbon black, talc, titanium oxide, silicone dioxide, and the like. In some embodiments, the filler material is incorporated into the sealing member material to mechanically stiffen the sealing member. In general, however, use of a filler material or stiffening agent in the sealing member material can provide a variety of enhanced properties including increased modulus of elasticity, crosslink density, hardness, and stiffness, and decreased creep, for example. In some alternative embodiments, gases are chemically (or otherwise) injected into the sealing member material. For example, the sealing material can comprise a polymeric foam (*e.g.*, a polyurethane foam, a latex foam, a styrene-butadiene foam, and the like), or a dispersion of gas bubbles in a grease or jelly.

[0174] In alternative embodiments, the seal **36** is designed to form an interference fit with the electronics unit and can be formed from a variety of materials, for example, flexible plastics, or noble metals. One of ordinary skill in the art appreciates that a variety of designs can be employed to provide a seal surrounding electrical contacts such as described herein. For example, the contact holder **34** can be integrally designed as a part of the mounting unit, rather than as a separate piece thereof. Additionally or alternatively, a sealant can be provided in or around the sensor (*e.g.*, within or on the contact subassembly or sealing member), such as is described in more detail with reference to Figs 12A and 12B. In general, sealing materials with durometer hardnesses in the described ranges can provide improved sealing in a variety of sensor applications. For example, a sealing member as described in the preferred embodiments (*e.g.*, selected using a durometer to ensure optimal durometer hardness, and the like) can be implemented adjacent to and/or to at least partially surrounding the sensor in a variety of sensor designs, including, for example, the sensor

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designs of the preferred embodiments, as well as a planar substrate such as described in U.S. Patent Number 6,175,752.

[0175] In the illustrated embodiment of Fig. 5A, the sealing member **36** is formed with a raised portion **37** surrounding the contacts **28**. The raised portion **37** enhances the interference fit surrounding the contacts **28** when the electronics unit **16** is mated to the mounting unit **14**. Namely, the raised portion surrounds each contact and presses against the electronics unit **16** to form a tight seal around the electronics unit. However, a variety of alternative sealing member configurations are described with reference to Figs. 5D to 5H, below.

[0176] Contacts **28** fit within the seal **36** and provide for electrical connection between the sensor **32** and the electronics unit **16**. In general, the contacts are designed to ensure a stable mechanical and electrical connection of the electrodes that form the sensor **32** (see Fig. 6A to 6C) to mutually engaging contacts **28** thereon. A stable connection can be provided using a variety of known methods, for example, domed metallic contacts, cantilevered fingers, pogo pins, or the like, as is appreciated by one skilled in the art.

[0177] In preferred embodiments, the contacts **28** are formed from a conductive elastomeric material, such as a carbon black elastomer, through which the sensor **32** extends (see Figs. 11B and 12B). Conductive elastomers are advantageously employed because their resilient properties create a natural compression against mutually engaging contacts, forming a secure press fit therewith. In some embodiments, conductive elastomers can be molded in such a way that pressing the elastomer against the adjacent contact performs a wiping action on the surface of the contact, thereby creating a cleaning action during initial connection. Additionally, in preferred embodiments, the sensor **32** extends through the contacts **28** wherein the sensor is electrically and mechanically secure by the relaxation of elastomer around the sensor (see Figs. 8A to 8D).

[0178] In an alternative embodiment, a conductive, stiff plastic forms the contacts, which are shaped to comply upon application of pressure (for example, a leaf-spring shape). Contacts of such a configuration can be used instead of a metallic spring, for example, and advantageously avoid the need for crimping or soldering through compliant materials; additionally, a wiping action can be incorporated into the design to remove

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contaminants from the surfaces during connection. Non-metallic contacts can be advantageous because of their seamless manufacturability, robustness to thermal compression, non-corrosive surfaces, and native resistance to electrostatic discharge (ESD) damage due to their higher-than-metal resistance.

[0179] Figs. 5B and 5C are perspective views of alternative contact configurations. Fig. 5B is an illustration of a narrow contact configuration. Fig. 5C is an illustration of a wide contact configuration. One skilled in the art appreciates that a variety of configurations are suitable for the contacts of the preferred embodiments, whether elastomeric, stiff plastic or other materials are used. In some circumstances, it can be advantageous to provide multiple contact configurations (such as illustrated in Figs. 5A to 5C) to differentiate sensors from each other. In other words, the architecture of the contacts can include one or more configurations each designed (keyed) to fit with a particular electronics unit.

[0180] Figs. 5D to 5H are schematic cross-sectional views of a portion of the contact subassembly; namely, a variety of alternative embodiments of the sealing member **36** are illustrated. In each of these embodiments (*e.g.*, Figs. 5D to 5H), a sensor **32** is shown, which is configured for operable connection to sensor electronics for measuring an analyte in a host such as described in more detail elsewhere herein. Additionally, two electrical contacts **28**, as described in more detail elsewhere herein, are configured to operably connect the sensor to the sensor electronics. Thus, the sealing member **36** in each of these alternative configurations (*e.g.*, Figs. 5D to 5H) at least partially surrounds the sensor and/or the electrical contacts to seal the electrical contacts from moisture when the sensor is operably connected to the sensor electronics.

[0181] Fig. 5D is a schematic cross-sectional view of the sealing member **36** in an embodiment similar to Fig. 5A, including gaps **400** that are maintained when the one or more electrical contacts are operably connected to the sensor electronics. Preferably, these air gaps provide for some flexibility of the sealing member **36** to deform or compress to seal the electrical contacts **28** from moisture or other environmental effects.

[0182] In certain circumstances, such as during sensor insertion or needle/guide tube retraction (see Figs. 8A to 8D), a sealing member with a certain elasticity can be

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compressed or deformed by the insertion and/or retraction forces applied thereto. Accordingly in some embodiments, the sealing member is configured to be maintained (*e.g.*, held substantially in place) on the housing (*e.g.*, contact subassembly **26** or base **34**) without substantial translation, deformation, and/or compression (*e.g.*, during sensor insertion). Fig. 5D illustrates one such implementation, wherein one or more depressions **402** are configured to receive mating protrusions (*e.g.*, on the base **34** of the contact subassembly **26**, not shown). A variety of male-female or other such mechanical structures can be implemented to hold the sealing member in place, as is appreciated by one skilled in the art. In one alternative embodiment, an adhesive (not shown) is configured to adhere the sealing member **36** to the housing (*e.g.*, base **34** of the contact subassembly **26**) to provide substantially the same benefit of holding the sealing member during sensor insertion/retraction without substantial deformation, as described in more detail, above. In another embodiment, the base **34** of the contact subassembly **26** (or equivalent structure) comprises reinforcing mechanical supports configured to hold the sealing member as described above. One skilled in the art appreciates a variety of mechanical and/or chemical methods that can be implemented to maintain a sealing member substantially stationary (*e.g.*, without substantial translation, deformation and/or compression) when compression and/or deformation forces are applied thereto. Although one exemplary embodiment is illustrated with reference to Fig. 5D, a wide variety of systems and methods for holding the sealing member can be implemented with a sealing member of any particular design.

[0183] Fig. 5E is a schematic cross-sectional view of the sealing member **36** in an alternative embodiment without gaps. In certain circumstances, full contact between mating members may be preferred.

[0184] In certain circumstances moisture may "wick" along the length of the sensor (*e.g.*, from an exposed end) through the sealing member **36** to the contacts **28**. Fig. 5F is a schematic cross-sectional view of a sealing member **36** in an alternative embodiment wherein one or more gaps **400** are provided. In this embodiment, the gaps **400** extend into the sealing member and encompass at least a portion of the sensor **32**. The gaps **400** or "deep wells" of Fig. 5F are designed to interrupt the path that moisture may take, avoiding contact of the moisture at the contacts **28**. If moisture is able to travel along the path of the sensor,

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the abrupt change of surface tension at the opening **404** of the gap **400** in the sealing member **36** substantially deters the moisture from traveling to the contacts **28**.

[0185] Fig. 5G is a schematic cross-sectional view of the sealing member **36** in another alternative embodiment wherein one or more gaps **400** are provided. In this embodiment, the gaps extend from the bottom side of the sealing member **36**, which can be helpful in maintaining a stable position of the contacts **28** and/or reduces "pumping" of air gaps in some situations.

[0186] In some embodiments, gaps **400** can be filled by a sealant, which also may be referred to as a lubricant, for example, oil, grease, or gel. In one exemplary embodiment, the sealant includes petroleum jelly and is used to provide a moisture barrier surrounding the sensor. Referring to Fig. 5F, filling the gaps **400** with a sealant provides an additional moisture barrier to reduce or avoid moisture from traveling to the contacts **28**. Sealant can be used to fill gaps or crevices in any sealing member configuration.

[0187] In some sealing member configurations, it can be advantageous to provide a channel **406** through the sealing member **36** in order to create an additional pathway for sealant (*e.g.* lubricant) in order to expel air and/or to provide a path for excess sealant to escape. In some embodiments, more than one channel is provided.

[0188] Fig. 5H is a schematic cross-sectional view of a sealing member **36** in an alternative embodiment wherein a large gap **400** is provided between the sealing member upper portion **408** and the sealing member lower portion **410**. These portions **408**, **410** may or may not be connected; however, they are configured to sandwich the sensor and sealant (*e.g.*, grease) therebetween. The sealing member **36** illustrated with reference to Fig. 5H can provide ease of manufacture and/or product assembly with a comprehensive sealing ability. Additional gaps (with or without sealant) can be provided in a variety of locations throughout the sealing member **36**; these additional gaps, for example, provide space for excess sealant.

Sensor

[0189] Preferably, the sensor **32** includes a distal portion **42**, also referred to as the *in vivo* portion, adapted to extend out of the mounting unit for insertion under the host's skin, and a proximal portion **40**, also referred to as an *ex vivo* portion, adapted to remain above the host's skin after sensor insertion and to operably connect to the electronics unit **16**

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via contacts **28**. Preferably, the sensor **32** includes two or more electrodes: a working electrode **44** and at least one additional electrode, which can function as a counter electrode and/or reference electrode, hereinafter referred to as the reference electrode **46**. A membrane system is preferably deposited over the electrodes, such as described in more detail with reference to Figs. 6A to 6C, below.

[0190] Fig. 6A is an expanded cutaway view of a proximal portion **40** of the sensor in one embodiment, showing working and reference electrodes. In the illustrated embodiments, the working and reference electrodes **44**, **46** extend through the contacts **28** to form electrical connection therewith (see Figs. 11B and 12B). Namely, the working electrode **44** is in electrical contact with one of the contacts **28** and the reference electrode **46** is in electrical contact with the other contact **28**, which in turn provides for electrical connection with the electronics unit **16** when it is mated with the mounting unit **14**. Mutually engaging electrical contacts permit operable connection of the sensor **32** to the electronics unit **16** when connected to the mounting unit **14**; however other methods of electrically connecting the electronics unit **16** to the sensor **32** are also possible. In some alternative embodiments, for example, the reference electrode can be configured to extend from the sensor and connect to a contact at another location on the mounting unit (*e.g.*, non-coaxially). Detachable connection between the mounting unit **14** and electronics unit **16** provides improved manufacturability, namely, the relatively inexpensive mounting unit **14** can be disposed of when replacing the sensor system after its usable life, while the relatively more expensive electronics unit **16** can be reused with multiple sensor systems.

[0191] In alternative embodiments, the contacts **28** are formed into a variety of alternative shapes and/or sizes. For example, the contacts **28** can be discs, spheres, cuboids, and the like. Furthermore, the contacts **28** can be designed to extend from the mounting unit in a manner that causes an interference fit within a mating cavity or groove of the electronics unit, forming a stable mechanical and electrical connection therewith.

[0192] Fig. 6B is an expanded cutaway view of a distal portion of the sensor in one embodiment, showing working and reference electrodes. In preferred embodiments, the sensor is formed from a working electrode **44** and a reference electrode **46** helically wound around the working electrode **44**. An insulator **45** is disposed between the working and

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reference electrodes to provide necessary electrical insulation therebetween. Certain portions of the electrodes are exposed to enable electrochemical reaction thereon, for example, a window **43** can be formed in the insulator to expose a portion of the working electrode **44** for electrochemical reaction.

[0193] In preferred embodiments, each electrode is formed from a fine wire with a diameter of from about 0.001 or less to about 0.010 inches or more, for example, and is formed from, *e.g.*, a plated insulator, a plated wire, or bulk electrically conductive material. Although the illustrated electrode configuration and associated text describe one preferred method of forming a transcutaneous sensor, a variety of known transcutaneous sensor configurations can be employed with the transcutaneous analyte sensor system of the preferred embodiments, such as U.S. Patent No. 5,711,861 to Ward *et al.*, U.S. Patent No. 6,642,015 to Vachon *et al.*, U.S. Patent No. 6,654,625 to Say *et al.*, U.S. Patent 6,565,509 to Say *et al.*, U.S. Patent No. 6,514,718 to Heller, U.S. Patent No. 6,465,066 to Essenpreis *et al.*, U.S. Patent No. 6,214,185 to Offenbacher *et al.*, U.S. Patent No. 5,310,469 to Cunningham *et al.*, and U.S. Patent No. 5,683,562 to Shaffer *et al.*, U.S. Patent 6,579,690 to Bonnecaze *et al.*, U.S. Patent 6,484,046 to Say *et al.*, U.S. Patent 6,512,939 to Colvin *et al.*, U.S. Patent 6,424,847 to Mastrototaro *et al.*, U.S. Patent 6,424,847 to Mastrototaro *et al.*, for example. All of the above patents are not inclusive of all applicable analyte sensors; in general, it should be understood that the disclosed embodiments are applicable to a variety of analyte sensor configurations. Much of the description of the preferred embodiments, for example the membrane system described below, can be implemented not only with *in vivo* sensors, but also with *in vitro* sensors, such as blood glucose meters (SMBG).

[0194] In preferred embodiments, the working electrode comprises a wire formed from a conductive material, such as platinum, platinum-iridium, palladium, graphite, gold, carbon, conductive polymer, alloys, or the like. Although the electrodes can by formed by a variety of manufacturing techniques (bulk metal processing, deposition of metal onto a substrate, or the like), it can be advantageous to form the electrodes from plated wire (*e.g.*, platinum on steel wire) or bulk metal (*e.g.*, platinum wire). It is believed that electrodes formed from bulk metal wire provide superior performance (*e.g.*, in contrast to deposited electrodes), including increased stability of assay, simplified manufacturability, resistance to

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contamination (*e.g.*, which can be introduced in deposition processes), and improved surface reaction (*e.g.*, due to purity of material) without peeling or delamination.

[0195] The working electrode **44** is configured to measure the concentration of an analyte. In an enzymatic electrochemical sensor for detecting glucose, for example, the working electrode measures the hydrogen peroxide produced by an enzyme catalyzed reaction of the analyte being detected and creates a measurable electronic current For example, in the detection of glucose wherein glucose oxidase produces hydrogen peroxide as a byproduct, hydrogen peroxide reacts with the surface of the working electrode producing two protons ($2H^+$), two electrons ($2e^-$) and one molecule of oxygen (O_2), which produces the electronic current being detected.

[0196] In preferred embodiments, the working electrode **44** is covered with an insulating material **45**, for example, a non-conductive polymer. Dip-coating, spray-coating, vapor-deposition, or other coating or deposition techniques can be used to deposit the insulating material on the working electrode. In one embodiment, the insulating material comprises parylene, which can be an advantageous polymer coating for its strength, lubricity, and electrical insulation properties. Generally, parylene is produced by vapor deposition and polymerization of para-xylylene (or its substituted derivatives). While not wishing to be bound by theory, it is believed that the lubricious (*e.g.*, smooth) coating (*e.g.*, parylene) on the sensors of the preferred embodiments contributes to minimal trauma and extended sensor life. While parylene coatings are generally preferred, any suitable insulating material can be used, for example, fluorinated polymers, polyethyleneterephthalate, polyurethane, polyimide, other nonconducting polymers, or the like. Glass or ceramic materials can also be employed. Other materials suitable for use include surface energy modified coating systems such as are marketed under the trade names AMC18, AMC148, AMC141, and AMC321 by Advanced Materials Components Express of Bellafonte, PA. In some alternative embodiments, however, the working electrode may not require a coating of insulator.

[0197] The reference electrode **46**, which can function as a reference electrode alone, or as a dual reference and counter electrode, is formed from silver, silver/silver chloride, or the like. Preferably, the reference electrode **46** is juxtapositioned and/or twisted with or around the working electrode **44**; however other configurations are also possible (*e.g.*,

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an intradermal or on-skin reference electrode). In the illustrated embodiments, the reference electrode **46** is helically wound around the working electrode **44**. The assembly of wires is then optionally coated or adhered together with an insulating material, similar to that described above, so as to provide an insulating attachment.

[0198] In some embodiments, a silver wire is formed onto the sensor as described above, and subsequently chloridized to form silver/silver chloride reference electrode. Advantageously, chloridizing the silver wire as described herein enables the manufacture of a reference electrode with optimal *in vivo* performance. Namely, by controlling the quantity and amount of chloridization of the silver to form silver/silver chloride, improved break-in time, stability of the reference electrode, and extended life has been shown with the preferred embodiments. Additionally, use of silver chloride as described above allows for relatively inexpensive and simple manufacture of the reference electrode.

[0199] In embodiments wherein an outer insulator is disposed, a portion of the coated assembly structure can be stripped or otherwise removed, for example, by hand, excimer lasing, chemical etching, laser ablation, grit-blasting (*e.g.*, with sodium bicarbonate or other suitable grit), or the like, to expose the electroactive surfaces. Alternatively, a portion of the electrode can be masked prior to depositing the insulator in order to maintain an exposed electroactive surface area. In one exemplary embodiment, grit blasting is implemented to expose the electroactive surfaces, preferably utilizing a grit material that is sufficiently hard to ablate the polymer material, while being sufficiently soft so as to minimize or avoid damage to the underlying metal electrode (*e.g.*, a platinum electrode). Although a variety of "grit" materials can be used (*e.g.*, sand, talc, walnut shell, ground plastic, sea salt, and the like), in some preferred embodiments, sodium bicarbonate is an advantageous grit-material because it is sufficiently hard to ablate, *e.g.*, a parylene coating without damaging, *e.g.*, an underlying platinum conductor. One additional advantage of sodium bicarbonate blasting includes its polishing action on the metal as it strips the polymer layer, thereby eliminating a cleaning step that might otherwise be necessary.

[0200] In the embodiment illustrated in Fig. 6B, a radial window **43** is formed through the insulating material **45** to expose a circumferential electroactive surface of the working electrode. Additionally, sections **41** of electroactive surface of the reference

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electrode are exposed. For example, the **41** sections of electroactive surface can be masked during deposition of an outer insulating layer or etched after deposition of an outer insulating layer.

[0201] In some applications, cellular attack or migration of cells to the sensor can cause reduced sensitivity and/or function of the device, particularly after the first day of implantation. However, when the exposed electroactive surface is distributed circumferentially about the sensor (*e.g.*, as in a radial window), the available surface area for reaction can be sufficiently distributed so as to minimize the effect of local cellular invasion of the sensor on the sensor signal. Alternatively, a tangential exposed electroactive window can be formed, for example, by stripping only one side of the coated assembly structure. In other alternative embodiments, the window can be provided at the tip of the coated assembly structure such that the electroactive surfaces are exposed at the tip of the sensor. Other methods and configurations for exposing electroactive surfaces can also be employed.

[0202] In some embodiments, the working electrode has a diameter of from about 0.001 inches or less to about 0.010 inches or more, preferably from about 0.002 inches to about 0.008 inches, and more preferably from about 0.004 inches to about 0.005 inches. The length of the window can be from about 0.1 mm (about 0.004 inches) or less to about 2 mm (about 0.078 inches) or more, and preferably from about 0.5 mm (about 0.02 inches) to about 0.75 mm (0.03 inches). In such embodiments, the exposed surface area of the working electrode is preferably from about 0.000013 in^2 (0.0000839cm^2) or less to about 0.0025 in^2 (0.016129 cm^2) or more (assuming a diameter of from about 0.001 inches to about 0.010 inches and a length of from about 0.004 inches to about 0.078 inches). The preferred exposed surface area of the working electrode is selected to produce an analyte signal with a current in the picoAmp range, such as is described in more detail elsewhere herein. However, a current in the picoAmp range can be dependent upon a variety of factors, for example the electronic circuitry design (*e.g.*, sample rate, current draw, A/D converter bit resolution, etc.), the membrane system (*e.g.*, permeability of the analyte through the membrane system), and the exposed surface area of the working electrode. Accordingly, the exposed electroactive working electrode surface area can be selected to have a value greater than or less than the above-described ranges taking into consideration alterations in the

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membrane system and/or electronic circuitry. In preferred embodiments of a glucose sensor, it can be advantageous to minimize the surface area of the working electrode while maximizing the diffusivity of glucose in order to optimize the signal-to-noise ratio while maintaining sensor performance in both high and low glucose concentration ranges.

[0203] In some alternative embodiments, the exposed surface area of the working (and/or other) electrode can be increased by altering the cross-section of the electrode itself. For example, in some embodiments the cross-section of the working electrode can be defined by a cross, star, cloverleaf, ribbed, dimpled, ridged, irregular, or other non-circular configuration; thus, for any predetermined length of electrode, a specific increased surface area can be achieved (as compared to the area achieved by a circular cross-section). Increasing the surface area of the working electrode can be advantageous in providing an increased signal responsive to the analyte concentration, which in turn can be helpful in improving the signal-to-noise ratio, for example.

[0204] In some alternative embodiments, additional electrodes can be included within the assembly, for example, a three-electrode system (working, reference, and counter electrodes) and/or an additional working electrode (*e.g.*, an electrode which can be used to generate oxygen, which is configured as a baseline subtracting electrode, or which is configured for measuring additional analytes). U.S. Publication No. US-2005-0161346-A1 and U.S. Publication No. US-2005-0143635-A1 describe some systems and methods for implementing and using additional working, counter, and/or reference electrodes. In one implementation wherein the sensor comprises two working electrodes, the two working electrodes are juxtapositioned (*e.g.*, extend parallel to each other), around which the reference electrode is disposed (*e.g.*, helically wound). In some embodiments wherein two or more working electrodes are provided, the working electrodes can be formed in a double-, triple-, quad-, etc. helix configuration along the length of the sensor (for example, surrounding a reference electrode, insulated rod, or other support structure). The resulting electrode system can be configured with an appropriate membrane system, wherein the first working electrode is configured to measure a first signal comprising glucose and baseline and the additional working electrode is configured to measure a baseline signal consisting of baseline only (*e.g.*, configured to be substantially similar to the first working electrode without an enzyme

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disposed thereon). In this way, the baseline signal can be subtracted from the first signal to produce a glucose-only signal that is substantially not subject to fluctuations in the baseline and/or interfering species on the signal.

[0205] Although the preferred embodiments illustrate one electrode configuration including one bulk metal wire helically wound around another bulk metal wire, other electrode configurations are also contemplated. In an alternative embodiment, the working electrode comprises a tube with a reference electrode disposed or coiled inside, including an insulator therebetween. Alternatively, the reference electrode comprises a tube with a working electrode disposed or coiled inside, including an insulator therebetween. In another alternative embodiment, a polymer (*e.g.*, insulating) rod is provided, wherein the electrodes are deposited (*e.g.*, electro-plated) thereon. In yet another alternative embodiment, a metallic (*e.g.*, steel) rod is provided, coated with an insulating material, onto which the working and reference electrodes are deposited. In yet another alternative embodiment, one or more working electrodes are helically wound around a reference electrode.

[0206] Preferably, the electrodes and membrane systems of the preferred embodiments are coaxially formed, namely, the electrodes and/or membrane system all share the same central axis. While not wishing to be bound by theory, it is believed that a coaxial design of the sensor enables a symmetrical design without a preferred bend radius. Namely, in contrast to prior art sensors comprising a substantially planar configuration that can suffer from regular bending about the plane of the sensor, the coaxial design of the preferred embodiments do not have a preferred bend radius and therefore are not subject to regular bending about a particular plane (which can cause fatigue failures and the like). However, non-coaxial sensors can be implemented with the sensor system of the preferred embodiments.

[0207] In addition to the above-described advantages, the coaxial sensor design of the preferred embodiments enables the diameter of the connecting end of the sensor (proximal portion) to be substantially the same as that of the sensing end (distal portion) such that the needle is able to insert the sensor into the host and subsequently slide back over the sensor and release the sensor from the needle, without slots or other complex multi-component designs.

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[0208] In one such alternative embodiment, the two wires of the sensor are held apart and configured for insertion into the host in proximal but separate locations. The separation of the working and reference electrodes in such an embodiment can provide additional electrochemical stability with simplified manufacture and electrical connectivity. It is appreciated by one skilled in the art that a variety of electrode configurations can be implemented with the preferred embodiments.

[0209] In some embodiments, the sensor includes an antimicrobial portion configured to extend through the exit-site when the sensor is implanted in the host. Namely, the sensor is designed with *in vivo* and *ex vivo* portions as described in more detail elsewhere herein; additionally, the sensor comprises a transition portion, also referred to as an antimicrobial portion, located between the *in vivo* and *ex vivo* portions **42**, **40**. The antimicrobial portion is designed to provide antimicrobial effects to the exit-site and adjacent tissue when implanted in the host.

[0210] In some embodiments, the antimicrobial portion comprises silver, *e.g.*, the portion of a silver reference electrode that is configured to extend through the exit-site when implanted. Although exit-site infections are a common adverse occurrence associated with some conventional transcutaneous medical devices, the devices of preferred embodiments are designed at least in part to minimize infection, to minimize irritation, and/or to extend the duration of implantation of the sensor by utilizing a silver reference electrode to extend through the exit-site when implanted in a patient. While not wishing to be bound by theory, it is believed that the silver may reduce local tissue infections (within the tissue and at the exit-site); namely, steady release of molecular quantities of silver is believed to have an antimicrobial effect in biological tissue (*e.g.*, reducing or preventing irritation and infection), also referred to as passive antimicrobial effects. Although one example of passive antimicrobial effects is described herein, one skilled in the art can appreciate a variety of passive anti-microbial systems and methods that can be implemented with the preferred embodiments. Additionally, it is believed that antimicrobial effects can contribute to extended life of a transcutaneous analyte sensor, enabling a functional lifetime past a few days, *e.g.*, seven days or longer.

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[0211] In some embodiments, active antimicrobial systems and methods are provided in the sensor system in order to further enhance the antimicrobial effects at the exit-site. In one such embodiment, an auxiliary silver wire is disposed on or around the sensor, wherein the auxiliary silver wire is connected to electronics and configured to pass a current sufficient to enhance its antimicrobial properties (active antimicrobial effects), as is appreciated by one skilled in the art. The current can be passed continuously or intermittently, such that sufficient antimicrobial properties are provided. Although one example of active antimicrobial effects is described herein, one skilled in the art can appreciate a variety of active anti-microbial systems and methods that can be implemented with the preferred embodiments.

Anchoring Mechanism

[0212] It is preferred that the sensor remains substantially stationary within the tissue of the host, such that migration or motion of the sensor with respect to the surrounding tissue is minimized. Migration or motion is believed to cause inflammation at the sensor implant site due to irritation, and can also cause noise on the sensor signal due to motion-related artifact, for example. Therefore, it can be advantageous to provide an anchoring mechanism that provides support for the sensor's *in vivo* portion to avoid the above-mentioned problems. Combining advantageous sensor geometry with an advantageous anchoring minimizes additional parts and allows for an optimally small or low profile design of the sensor. In one embodiment the sensor includes a surface topography, such as the helical surface topography provided by the reference electrode surrounding the working electrode. In alternative embodiments, a surface topography could be provided by a roughened surface, porous surface (*e.g.* porous parylene), ridged surface, or the like. Additionally (or alternatively), the anchoring can be provided by prongs, spines, barbs, wings, hooks, a bulbous portion (for example, at the distal end), an S-bend along the sensor, a rough surface topography, a gradually changing diameter, combinations thereof, or the like, which can be used alone or in combination with the helical surface topography to stabilize the sensor within the subcutaneous tissue.

Variable Stiffness

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[0213] As described above, conventional transcutaneous devices are believed to suffer from motion artifact associated with host movement when the host is using the device. For example, when a transcutaneous analyte sensor is inserted into the host, various movements on the sensor (for example, relative movement within and between the subcutaneous space, dermis, skin, and external portions of the sensor) create stresses on the device, which is known to produce artifacts on the sensor signal. Accordingly, there are different design considerations (for example, stress considerations) on various sections of the sensor. For example, the distal portion **42** of the sensor can benefit in general from greater flexibility as it encounters greater mechanical stresses caused by movement of the tissue within the patient and relative movement between the *in vivo* and *ex vivo* portions of the sensor. On the other hand, the proximal portion **40** of the sensor can benefit in general from a stiffer, more robust design to ensure structural integrity and/or reliable electrical connections. Additionally, in some embodiments wherein a needle is retracted over the proximal portion **40** of the device (see Figs. 7 to 9), a stiffer design can minimize crimping of the sensor and/or ease in retraction of the needle from the sensor. Thus, by designing greater flexibility into the *in vivo* (distal) portion **42**, the flexibility is believed to compensate for patient movement, and noise associated therewith. By designing greater stiffness into the *ex vivo* (proximal) portion **40**, column strength (for retraction of the needle over the sensor), electrical connections, and integrity can be enhanced. In some alternative embodiments, a stiffer distal end and/or a more flexible proximal end can be advantageous as described in U.S. Publication No. US-2006-0015024-A1.

[0214] The preferred embodiments provide a distal portion **42** of the sensor **32** designed to be more flexible than a proximal portion **40** of the sensor. The variable stiffness of the preferred embodiments can be provided by variable pitch of any one or more helically wound wires of the device, variable cross-section of any one or more wires of the device, and/or variable hardening and/or softening of any one or more wires of the device, such as is described in more detail with reference to U.S. Publication No. US-2006-0015024-A1.

Membrane System

[0215] Fig. 6C is a cross-sectional view through the sensor on line C-C of Fig. 6B showing the exposed electroactive surface of the working electrode surrounded by the

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membrane system in one embodiment. Preferably, a membrane system is deposited over at least a portion of the electroactive surfaces of the sensor **32** (working electrode and optionally reference electrode) and provides protection of the exposed electrode surface from the biological environment, diffusion resistance (limitation) of the analyte if needed, a catalyst for enabling an enzymatic reaction, limitation or blocking of interferents, and/or hydrophilicity at the electrochemically reactive surfaces of the sensor interface. Some examples of suitable membrane systems are described in U.S. Publication No. US-2005-0245799-A1.

[0216] In general, the membrane system includes a plurality of domains, for example, an electrode domain **47**, an interference domain **48**, an enzyme domain **49** (for example, including glucose oxidase), and a resistance domain **50**, as shown in Fig. 6C, and can include a high oxygen solubility domain, and/or a bioprotective domain (not shown), such as is described in more detail in U.S. Publication No. US-2005-0245799-A1. The membrane system can be deposited on the exposed electroactive surfaces using known thin film techniques (for example, vapor deposition, spraying, electro-depositing, dipping, or the like). In alternative embodiments, however, other vapor deposition processes (*e.g.*, physical and/or chemical vapor deposition processes) can be useful for providing one or more of the insulating and/or membrane layers, including ultrasonic vapor deposition, electrostatic deposition, evaporative deposition, deposition by sputtering, pulsed laser deposition, high velocity oxygen fuel deposition, thermal evaporator deposition, electron beam evaporator deposition, deposition by reactive sputtering molecular beam epitaxy, atmospheric pressure chemical vapor deposition (CVD), atomic layer CVD, hot wire CVD, low-pressure CVD, microwave plasma-assisted CVD, plasma-enhanced CVD, rapid thermal CVD, remote plasma-enhanced CVD, and ultra-high vacuum CVD, for example. However, the membrane system can be disposed over (or deposited on) the electroactive surfaces using any known method, as will be appreciated by one skilled in the art.

[0217] In some embodiments, one or more domains of the membrane systems are formed from materials such as described above in connection with the porous layer, such as silicone, polytetrafluoroethylene, polyethylene-co-tetrafluoroethylene, polyolefin, polyester, polycarbonate, biostable polytetrafluoroethylene, homopolymers, copolymers, terpolymers of

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polyurethanes, polypropylene (PP), polyvinylchloride (PVC), polyvinylidene fluoride (PVDF), polybutylene terephthalate (PBT), polymethylmethacrylate (PMMA), polyether ether ketone (PEEK), polyurethanes, cellulosic polymers, polysulfones and block copolymers thereof including, for example, di-block, tri-block, alternating, random and graft copolymers. U.S. Publication No. US-2005-0245799-A1 describes biointerface and membrane system configurations and materials that can be applied to the preferred embodiments.

Electrode Domain

[0218] In selected embodiments, the membrane system comprises an electrode domain. The electrode domain **47** is provided to ensure that an electrochemical reaction occurs between the electroactive surfaces of the working electrode and the reference electrode, and thus the electrode domain **47** is preferably situated more proximal to the electroactive surfaces than the interference and/or enzyme domain. Preferably, the electrode domain includes a coating that maintains a layer of water at the electrochemically reactive surfaces of the sensor. In other words, the electrode domain is present to provide an environment between the surfaces of the working electrode and the reference electrode which facilitates an electrochemical reaction between the electrodes. For example, a humectant in a binder material can be employed as an electrode domain; this allows for the full transport of ions in the aqueous environment. The electrode domain can also assist in stabilizing the operation of the sensor by accelerating electrode start-up and drifting problems caused by inadequate electrolyte. The material that forms the electrode domain can also provide an environment that protects against pH-mediated damage that can result from the formation of a large pH gradient due to the electrochemical activity of the electrodes.

[0219] In one embodiment, the electrode domain **47** includes a flexible, water-swellable, hydrogel film having a "dry film" thickness of from about 0.05 micron or less to about 20 microns or more, more preferably from about 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 1, 1.5, 2, 2.5, 3, or 3.5 microns to about 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 19.5 microns, and more preferably still from about 2, 2.5 or 3 microns to about 3.5, 4, 4.5, or 5 microns. "Dry film" thickness refers to the thickness of a cured film cast from a coating formulation by standard coating techniques.

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[0220] In certain embodiments, the electrode domain **47** is formed of a curable mixture of a urethane polymer and a hydrophilic polymer. Particularly preferred coatings are formed of a polyurethane polymer having carboxylate or hydroxyl functional groups and non-ionic hydrophilic polyether segments, wherein the polyurethane polymer is crosslinked with a water soluble carbodiimide (*e.g.*, 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide (EDC)) in the presence of polyvinylpyrrolidone and cured at a moderate temperature of about 50°C.

[0221] In some preferred embodiments, the electrode domain **47** is formed from a hydrophilic polymer such as polyvinylpyrrolidone (PVP). An electrode domain formed from PVP has been shown to reduce break-in time of analyte sensors; for example, a glucose sensor utilizing a cellulosic-based interference domain such as described in more detail below.

[0222] Preferably, the electrode domain is deposited by vapor deposition, spray coating, dip coating, or other thin film techniques on the electroactive surfaces of the sensor. In one preferred embodiment, the electrode domain is formed by dip-coating the electroactive surfaces in an electrode layer solution and curing the domain for a time of from about 15 minutes to about 30 minutes at a temperature of from about 40°C to about 55°C (and can be accomplished under vacuum (*e.g.*, 20 to 30 mmHg)). In embodiments wherein dip-coating is used to deposit the electrode domain, a preferred insertion rate of from about 1 to about 3 inches per minute into the electrode layer solution, with a preferred dwell time of from about 0.5 to about 2 minutes in the electrode layer solution, and a preferred withdrawal rate of from about 0.25 to about 2 inches per minute from the electrode layer solution provide a functional coating. However, values outside of those set forth above can be acceptable or even desirable in certain embodiments, for example, depending upon solution viscosity and solution surface tension, as is appreciated by one skilled in the art. In one embodiment, the electroactive surfaces of the electrode system are dip-coated one time (one layer) and cured at 50°C under vacuum for 20 minutes.

[0223] Although an independent electrode domain **47** is described herein, in some embodiments sufficient hydrophilicity can be provided in the interference domain and/or enzyme domain (the domain adjacent to the electroactive surfaces) so as to provide for the

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full transport of ions in the aqueous environment (*e.g.* without a distinct electrode domain). In these embodiments, an electrode domain is not necessary.

Interference Domain

[0224] Interferents are molecules or other species that are reduced or oxidized at the electrochemically reactive surfaces of the sensor, either directly or via an electron transfer agent, to produce a false positive analyte signal. In preferred embodiments, an interference domain **48** is provided that substantially restricts, resists, or blocks the flow of one or more interfering species. Some known interfering species for a glucose sensor, as described in more detail above, include acetaminophen, ascorbic acid, bilirubin, cholesterol, creatinine, dopamine, ephedrine, ibuprofen, L-dopa, methyl dopa, salicylate, tetracycline, tolazamide, tolbutamide, triglycerides, and uric acid. In general, the interference domain of the preferred embodiments is less permeable to one or more of the interfering species than to the analyte, *e.g.*, glucose.

[0225] In one embodiment, the interference domain **48** is formed from one or more cellulosic derivatives. In general, cellulosic derivatives include polymers such as cellulose acetate, cellulose acetate butyrate, 2-hydroxyethyl cellulose, cellulose acetate phthalate, cellulose acetate propionate, cellulose acetate trimellitate, and the like.

[0226] In one preferred embodiment, the interference domain **48** is formed from cellulose acetate butyrate. Cellulose acetate butyrate with a molecular weight of from about 10,000 daltons to about 75,000 daltons, preferably from about 15,000, 20,000, or 25,000 daltons to about 50,000, 55,000, 60,000, 65,000, or 70,000 daltons, and more preferably about 20,000 daltons is employed. In certain embodiments, however, higher or lower molecular weights can be preferred. Additionally, a casting solution or dispersion of cellulose acetate butyrate at a weight percent of from about 15% to about 25%, preferably from about 15%, 16%, 17%, 18%, 19% to about 20%, 21%, 22%, 23%, 24% or 25%, and more preferably about 18% is preferred. Preferably, the casting solution includes a solvent or solvent system, for example an acetone:ethanol solvent system. Higher or lower concentrations can be preferred in certain embodiments. A plurality of layers of cellulose acetate butyrate can be advantageously combined to form the interference domain in some embodiments, for example, three layers can be employed. It can be desirable to employ a

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mixture of cellulose acetate butyrate components with different molecular weights in a single solution, or to deposit multiple layers of cellulose acetate butyrate from different solutions comprising cellulose acetate butyrate of different molecular weights, different concentrations, and/or different chemistries (*e.g.*, functional groups). It can also be desirable to include additional substances in the casting solutions or dispersions, *e.g.*, functionalizing agents, crosslinking agents, other polymeric substances, substances capable of modifying the hydrophilicity/hydrophobicity of the resulting layer, and the like.

[0227] In one alternative embodiment, the interference domain **48** is formed from cellulose acetate. Cellulose acetate with a molecular weight of from about 30,000 daltons or less to about 100,000 daltons or more, preferably from about 35,000, 40,000, or 45,000 daltons to about 55,000, 60,000, 65,000, 70,000, 75,000, 80,000, 85,000, 90,000, or 95,000 daltons, and more preferably about 50,000 daltons is preferred. Additionally, a casting solution or dispersion of cellulose acetate at a weight percent of about 3% to about 10%, preferably from about 3.5%, 4.0%, 4.5%, 5.0%, 5.5%, 6.0%, or 6.5% to about 7.5%, 8.0%, 8.5%, 9.0%, or 9.5%, and more preferably about 8% is preferred. In certain embodiments, however, higher or lower molecular weights and/or cellulose acetate weight percentages can be preferred. It can be desirable to employ a mixture of cellulose acetates with molecular weights in a single solution, or to deposit multiple layers of cellulose acetate from different solutions comprising cellulose acetates of different molecular weights, different concentrations, or different chemistries (*e.g.*, functional groups). It can also be desirable to include additional substances in the casting solutions or dispersions such as described in more detail above.

[0228] Layer(s) prepared from combinations of cellulose acetate and cellulose acetate butyrate, or combinations of layer(s) of cellulose acetate and layer(s) of cellulose acetate butyrate can also be employed to form the interference domain **48**.

[0229] In some alternative embodiments, additional polymers, such as Nafion®, can be used in combination with cellulosic derivatives to provide equivalent and/or enhanced function of the interference domain **48**. As one example, a 5 wt % Nafion® casting solution or dispersion can be used in combination with a 8 wt % cellulose acetate casting solution or dispersion, *e.g.*, by dip coating at least one layer of cellulose acetate and subsequently dip

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coating at least one layer Nafion® onto a needle-type sensor such as described with reference to the preferred embodiments. Any number of coatings or layers formed in any order may be suitable for forming the interference domain of the preferred embodiments.

[0230] In some alternative embodiments, more than one cellulosic derivative can be used to form the interference domain **48** of the preferred embodiments. In general, the formation of the interference domain on a surface utilizes a solvent or solvent system in order to solvate the cellulosic derivative (or other polymer) prior to film formation thereon. In preferred embodiments, acetone and ethanol are used as solvents for cellulose acetate; however one skilled in the art appreciates the numerous solvents that are suitable for use with cellulosic derivatives (and other polymers). Additionally, one skilled in the art appreciates that the preferred relative amounts of solvent can be dependent upon the cellulosic derivative (or other polymer) used, its molecular weight, its method of deposition, its desired thickness, and the like. However, a percent solute of from about 1% to about 25% is preferably used to form the interference domain solution so as to yield an interference domain having the desired properties. The cellulosic derivative (or other polymer) used, its molecular weight, method of deposition, and desired thickness can be adjusted, depending upon one or more other of the parameters, and can be varied accordingly as is appreciated by one skilled in the art.

[0231] In some alternative embodiments, other polymer types that can be utilized as a base material for the interference domain **48** including polyurethanes, polymers having pendant ionic groups, and polymers having controlled pore size, for example. In one such alternative embodiment, the interference domain includes a thin, hydrophobic membrane that is non-swellable and restricts diffusion of low molecular weight species. The interference domain **48** is permeable to relatively low molecular weight substances, such as hydrogen peroxide, but restricts the passage of higher molecular weight substances, including glucose and ascorbic acid. Other systems and methods for reducing or eliminating interference species that can be applied to the membrane system of the preferred embodiments are described in U.S. Publication No. US-2005-0115832-A1, U.S. Publication No. US-2005-0176136-A1, U.S. Publication No. US-2005-0161346-A1, and U.S. Publication No. US-

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2005-0143635-A1. In some alternative embodiments, a distinct interference domain is not included.

[0232] In preferred embodiments, the interference domain **48** is deposited directly onto the electroactive surfaces of the sensor for a domain thickness of from about 0.05 microns or less to about 20 microns or more, more preferably from about 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 1, 1.5, 2, 2.5, 3, or 3.5 microns to about 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 19.5 microns, and more preferably still from about 1, 1.5 or 2 microns to about 2.5 or 3 microns. Thicker membranes can also be desirable in certain embodiments, but thinner membranes are generally preferred because they have a lower impact on the rate of diffusion of hydrogen peroxide from the enzyme membrane to the electrodes.

[0233] In general, the membrane systems of the preferred embodiments can be formed and/or deposited on the exposed electroactive surfaces (*e.g.*, one or more of the working and reference electrodes) using known thin film techniques (for example, casting, spray coating, drawing down, electro-depositing, dip coating, and the like), however casting or other known application techniques can also be utilized. Preferably, the interference domain is deposited by vapor deposition, spray coating, or dip coating. In one exemplary embodiment of a needle-type (transcutaneous) sensor such as described herein, the interference domain is formed by dip coating the sensor into an interference domain solution using an insertion rate of from about 20 inches/min to about 60 inches/min, preferably 40 inches/min, a dwell time of from about 0 minute to about 5 seconds, preferably 0 seconds, and a withdrawal rate of from about 20 inches/minute to about 60 inches/minute, preferably about 40 inches/minute, and curing (drying) the domain from about 1 minute to about 30 minutes, preferably from about 3 minutes to about 15 minutes (and can be accomplished at room temperature or under vacuum (*e.g.*, 20 to 30 mmHg)). In one exemplary embodiment including cellulose acetate butyrate interference domain, a 3-minute cure (*i.e.*, dry) time is preferred between each layer applied. In another exemplary embodiment employing a cellulose acetate interference domain, a 15 minute cure (*i.e.*, dry) time is preferred between each layer applied.

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[0234] The dip process can be repeated at least one time and up to 10 times or more. The preferred number of repeated dip processes depends upon the cellulosic derivative(s) used, their concentration, conditions during deposition (*e.g.*, dipping) and the desired thickness (*e.g.,* sufficient thickness to provide functional blocking of (or resistance to) certain interferents), and the like. In some embodiments, 1 to 3 microns may be preferred for the interference domain thickness; however, values outside of these can be acceptable or even desirable in certain embodiments, for example, depending upon viscosity and surface tension, as is appreciated by one skilled in the art. In one exemplary embodiment, an interference domain is formed from three layers of cellulose acetate butyrate. In another exemplary embodiment, an interference domain is formed from 10 layers of cellulose acetate. In alternative embodiments, the interference domain can be formed using any known method and combination of cellulose acetate and cellulose acetate butyrate, as will be appreciated by one skilled in the art.

[0235] In some embodiments, the electroactive surface can be cleaned prior to application of the interference domain **48**. In some embodiments, the interference domain **48** of the preferred embodiments can be useful as a bioprotective or biocompatible domain, namely, a domain that interfaces with host tissue when implanted in an animal (*e.g.*, a human) due to its stability and biocompatibility.

Enzyme Domain

[0236] In preferred embodiments, the membrane system further includes an enzyme domain **49** disposed more distally from the electroactive surfaces than the interference domain **48**; however other configurations can be desirable. In the preferred embodiments, the enzyme domain provides an enzyme to catalyze the reaction of the analyte and its co-reactant, as described in more detail below. In the preferred embodiments of a glucose sensor, the enzyme domain includes glucose oxidase; however other oxidases, for example, galactose oxidase or uricase oxidase, can also be used.

[0237] For an enzyme-based electrochemical glucose sensor to perform well, the sensor's response is preferably limited by neither enzyme activity nor co-reactant concentration. Because enzymes, including glucose oxidase, are subject to deactivation as a function of time even in ambient conditions, this behavior is compensated for in forming the

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enzyme domain. Preferably, the enzyme domain is constructed of aqueous dispersions of colloidal polyurethane polymers including the enzyme. However, in alternative embodiments the enzyme domain is constructed from an oxygen enhancing material, for example, silicone, or fluorocarbon, in order to provide a supply of excess oxygen during transient ischemia. Preferably, the enzyme is immobilized within the domain. See, *e.g.*, U.S. Publication No. US-2005-0054909-A1.

[0238] In preferred embodiments, the enzyme domain is deposited onto the interference domain for a domain thickness of from about 0.05 micron or less to about 20 microns or more, more preferably from about 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 1, 1.5, 2, 2.5, 3, or 3.5 microns to about 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 19.5 microns, and more preferably still from about 2, 2.5 or 3 microns to about 3.5, 4, 4.5, or 5 microns. However in some embodiments, the enzyme domain can be deposited directly onto the electroactive surfaces. Preferably, the enzyme domain is deposited by spray or dip coating. In one embodiment of needle-type (transcutaneous) sensor such as described herein, the enzyme domain is formed by dip coating the interference domain coated sensor into an enzyme domain solution and curing the domain for from about 15 to about 30 minutes at a temperature of from about 40°C to about 55°C (and can be accomplished under vacuum (*e.g.*, 20 to 30 mmHg)). In embodiments wherein dip coating is used to deposit the enzyme domain at room temperature, a preferred insertion rate of from about 0.25 inch per minute to about 3 inches per minute, with a preferred dwell time of from about 0.5 minutes to about 2 minutes, and a preferred withdrawal rate of from about 0.25 inch per minute to about 2 inches per minute provides a functional coating. However, values outside of those set forth above can be acceptable or even desirable in certain embodiments, for example, depending upon viscosity and surface tension, as is appreciated by one skilled in the art. In one embodiment, the enzyme domain is formed by dip coating two times (namely, forming two layers) in an enzyme domain solution and curing at 50°C under vacuum for 20 minutes. However, in some embodiments, the enzyme domain can be formed by dip coating and/or spray coating one or more layers at a predetermined concentration of the coating solution, insertion rate, dwell time, withdrawal rate, and/or desired thickness.

Resistance Domain

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[0239] In preferred embodiments, the membrane system includes a resistance domain **50** disposed more distal from the electroactive surfaces than the enzyme domain. Although the following description is directed to a resistance domain for a glucose sensor, the resistance domain can be modified for other analytes and co-reactants as well.

[0240] There exists a molar excess of glucose relative to the amount of oxygen in blood; that is, for every free oxygen molecule in extracellular fluid, there are typically more than 100 glucose molecules present (see Updike *et al.*, Diabetes Care 5:207-21(1982)). However, an immobilized enzyme-based glucose sensor employing oxygen as co-reactant is preferably supplied with oxygen in non-rate-limiting excess in order for the sensor to respond linearly to changes in glucose concentration, while not responding to changes in oxygen concentration. Specifically, when a glucose-monitoring reaction is oxygen limited, linearity is not achieved above minimal concentrations of glucose. Without a semipermeable membrane situated over the enzyme domain to control the flux of glucose and oxygen, a linear response to glucose levels can be obtained only for glucose concentrations of up to about 40 mg/dL. However, in a clinical setting, a linear response to glucose levels is desirable up to at least about 400 mg/dL.

[0241] The resistance domain includes a semipermeable membrane that controls the flux of oxygen and glucose to the underlying enzyme domain, preferably rendering oxygen in a non-rate-limiting excess. As a result, the upper limit of linearity of glucose measurement is extended to a much higher value than that which is achieved without the resistance domain. In one embodiment, the resistance domain exhibits an oxygen to glucose permeability ratio of from about 50:1 or less to about 400:1 or more, preferably about 200:1. As a result, one-dimensional reactant diffusion is adequate to provide excess oxygen at all reasonable glucose and oxygen concentrations found in the subcutaneous matrix (see Rhodes *et al.*, Anal. Chem., 66:1520-1529 (1994)).

[0242] In alternative embodiments, a lower ratio of oxygen-to-glucose can be sufficient to provide excess oxygen by using a high oxygen solubility domain (for example, a silicone or fluorocarbon-based material or domain) to enhance the supply/transport of oxygen to the enzyme domain. If more oxygen is supplied to the enzyme, then more glucose can also be supplied to the enzyme without creating an oxygen rate-limiting excess. In alternative

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embodiments, the resistance domain is formed from a silicone composition, such as is described in U.S. Publication No. US-2005-0090607-A1.

[0243] In a preferred embodiment, the resistance domain includes a polyurethane membrane with both hydrophilic and hydrophobic regions to control the diffusion of glucose and oxygen to an analyte sensor, the membrane being fabricated easily and reproducibly from commercially available materials. A suitable hydrophobic polymer component is a polyurethane, or polyetherurethaneurea. Polyurethane is a polymer produced by the condensation reaction of a diisocyanate and a difunctional hydroxyl-containing material. A polyurethaneurea is a polymer produced by the condensation reaction of a diisocyanate and a difunctional amine-containing material. Preferred diisocyanates include aliphatic diisocyanates containing from about 4 to about 8 methylene units. Diisocyanates containing cycloaliphatic moieties can also be useful in the preparation of the polymer and copolymer components of the membranes of preferred embodiments. The material that forms the basis of the hydrophobic matrix of the resistance domain can be any of those known in the art as appropriate for use as membranes in sensor devices and as having sufficient permeability to allow relevant compounds to pass through it, for example, to allow an oxygen molecule to pass through the membrane from the sample under examination in order to reach the active enzyme or electrochemical electrodes. Examples of materials which can be used to make non-polyurethane type membranes include vinyl polymers, polyethers, polyesters, polyamides, inorganic polymers such as polysiloxanes and polycarbosiloxanes, natural polymers such as cellulosic and protein based materials, and mixtures or combinations thereof.

[0244] In a preferred embodiment, the hydrophilic polymer component is polyethylene oxide. For example, one useful hydrophobic-hydrophilic copolymer component is a polyurethane polymer that includes about 20% hydrophilic polyethylene oxide. The polyethylene oxide portions of the copolymer are thermodynamically driven to separate from the hydrophobic portions of the copolymer and the hydrophobic polymer component. The 20% polyethylene oxide-based soft segment portion of the copolymer used to form the final blend affects the water pick-up and subsequent glucose permeability of the membrane.

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[0245] In preferred embodiments, the resistance domain is deposited onto the enzyme domain to yield a domain thickness of from about 0.05 microns or less to about 20 microns or more, more preferably from about 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 1, 1.5, 2, 2.5, 3, or 3.5 microns to about 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 19.5 microns, and more preferably still from about 2, 2.5 or 3 microns to about 3.5, 4, 4.5, or 5 microns. Preferably, the resistance domain is deposited onto the enzyme domain by vapor deposition, spray coating, or dip coating. In one preferred embodiment, spray coating is the preferred deposition technique. The spraying process atomizes and mists the solution, and therefore most or all of the solvent is evaporated prior to the coating material settling on the underlying domain, thereby minimizing contact of the solvent with the enzyme.

[0246] In another preferred embodiment, physical vapor deposition (*e.g.*, ultrasonic vapor deposition) is used for coating one or more of the membrane domain(s) onto the electrodes, wherein the vapor deposition apparatus and process include an ultrasonic nozzle that produces a mist of micro-droplets in a vacuum chamber. In these embodiments, the micro-droplets move turbulently within the vacuum chamber, isotropically impacting and adhering to the surface of the substrate. Advantageously, vapor deposition as described above can be implemented to provide high production throughput of membrane deposition processes (*e.g.*, at least about 20 to about 200 or more electrodes per chamber), greater consistency of the membrane on each sensor, and increased uniformity of sensor performance, for example, as described below.

[0247] In some embodiments, depositing the resistance domain (for example, as described in the preferred embodiments above) includes formation of a membrane system that substantially blocks or resists ascorbate (a known electrochemical interferant in hydrogen peroxide-measuring glucose sensors). While not wishing to be bound by theory, it is believed that during the process of depositing the resistance domain as described in the preferred embodiments, a structural morphology is formed that is characterized in that ascorbate does not substantially permeate therethrough.

[0248] In a preferred embodiment, the resistance domain is deposited on the enzyme domain by spray coating a solution of from about 1 wt. % to about 5 wt. % polymer and from about 95 wt. % to about 99 wt. % solvent. In spraying a solution of resistance

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domain material, including a solvent, onto the enzyme domain, it is desirable to mitigate or substantially reduce any contact with enzyme of any solvent in the spray solution that can deactivate the underlying enzyme of the enzyme domain. Tetrahydrofuran (THF) is one solvent that minimally or negligibly affects the enzyme of the enzyme domain upon spraying. Other solvents can also be suitable for use, as is appreciated by one skilled in the art.

[0249] Although a variety of spraying or deposition techniques can be used, spraying the resistance domain material and rotating the sensor at least one time by 180° can typically provide adequate coverage by the resistance domain. Spraying the resistance domain material and rotating the sensor at least two times by 120° provides even greater coverage (one layer of 360° coverage), thereby ensuring resistivity to glucose, such as is described in more detail above.

[0250] In preferred embodiments, the resistance domain is spray coated and subsequently cured for a time of from about 15 minutes to about 90 minutes at a temperature of from about 40°C to about 60°C (and can be accomplished under vacuum (*e.g.*, from 20 to 30 mmHg)). A cure time of up to about 90 minutes or more can be advantageous to ensure complete drying of the resistance domain.

[0251] In one embodiment, the resistance domain is formed by spray coating at least six layers (namely, rotating the sensor seventeen times by 120° for at least six layers of 360° coverage) and curing at 50°C under vacuum for 60 minutes. However, the resistance domain can be formed by dip coating or spray coating any layer or plurality of layers, depending upon the concentration of the solution, insertion rate, dwell time, withdrawal rate, and/or the desired thickness of the resulting film. Additionally, curing in a convention oven can also be employed.

[0252] In certain embodiments, a variable frequency microwave oven can be used to cure the membrane domains/layers. In general, microwave ovens directly excite the rotational mode of solvents. Consequently, microwave ovens cure coatings from the inside out rather than from the outside in as with conventional convection ovens. This direct rotational mode excitation is responsible for the typically observed "fast" curing within a microwave oven. In contrast to conventional microwave ovens, which rely upon a fixed frequency of emission that can cause arcing of dielectric (metallic) substrates if placed within

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a conventional microwave oven, Variable Frequency Microwave (VFM) ovens emit thousands of frequencies within 100 milliseconds, which substantially eliminates arcing of dielectric substrates. Consequently, the membrane domains/layers can be cured even after deposition on metallic electrodes as described herein. While not wishing to be bound by theory, it is believe that VFM curing can increase the rate and completeness of solvent evaporation from a liquid membrane solution applied to a sensor, as compared to the rate and completeness of solvent evaporation observed for curing in conventional convection ovens.

[0253] In certain embodiments, VFM is can be used together with convection oven curing to further accelerate cure time. In some sensor applications wherein the membrane is cured prior to application on the electrode (see, for example, U.S. Publication No. US-2005-0245799-A1), conventional microwave ovens (*e.g.*, fixed frequency microwave ovens) can be used to cure the membrane layer.

Treatment of Interference Domain/Membrane System

[0254] Although the above-described methods generally include a curing step in formation of the membrane system, including the interference domain, the preferred embodiments further include an additional treatment step, which can be performed directly after the formation of the interference domain and/or some time after the formation of the entire membrane system (or anytime in between). In some embodiments, the additional treatment step is performed during (or in combination with) sterilization of the sensor.

[0255] In some embodiments, the membrane system (or interference domain) is treated by exposure to ionizing radiation, for example, electron beam radiation, UV radiation, X-ray radiation, gamma radiation, and the like. Alternatively, the membrane can be exposed to visible light when suitable photoinitiators are incorporated into the interference domain. While not wishing to be bound by theory, it is believed that exposing the interference domain to ionizing radiation substantially crosslinks the interference domain and thereby creates a tighter, less permeable network than an interference domain that has not been exposed to ionizing radiation.

[0256] In some embodiments, the membrane system (or interference domain) is crosslinked by forming free radicals, which may include the use of ionizing radiation, thermal initiators, chemical initiators, photoinitiators (*e.g.*, UV and visible light), and the like. Any

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suitable initiator or any suitable initiator system can be employed, for example, α-hydroxyketone, α-aminoketone, ammonium persulfate (APS), redox systems such as APS/bisulfite, or potassium permanganate. Suitable thermal initiators include but are not limited to potassium persulfate, ammonium persulfate, sodium persulfate, and mixtures thereof.

[0257] In embodiments wherein electron beam radiation is used to treat the membrane system (or interference domain), a preferred exposure time is from about 6k or 12kGy to about 25 or 50 kGy, more preferably about 25kGy. However, one skilled in the art appreciates that choice of molecular weight, composition of cellulosic derivative (or other polymer), and/or the thickness of the layer can affect the preferred exposure time of membrane to radiation. Preferably, the exposure is sufficient for substantially crosslinking the interference domain to form free radicals, but does not destroy or significantly break down the membrane or does not significantly damage the underlying electroactive surfaces.

[0258] In embodiments wherein UV radiation is employed to treat the membrane, UV rays from about 200 nm to about 400 nm are preferred; however values outside of this range can be employed in certain embodiments, dependent upon the cellulosic derivative and/or other polymer used.

[0259] In some embodiments, for example, wherein photoinitiators are employed to crosslink the interference domain, one or more additional domains can be provided adjacent to the interference domain for preventing delamination that may be caused by the crosslinking treatment. These additional domains can be "tie layers" (*i.e.*, film layers that enhance adhesion of the interference domain to other domains of the membrane system). In one exemplary embodiment, a membrane system is formed that includes the following domains: resistance domain, enzyme domain, electrode domain, and cellulosic-based interference domain, wherein the electrode domain is configured to ensure adhesion between the enzyme domain and the interference domain. In embodiments wherein photoinitiators are employed to crosslink the interference domain, UV radiation of greater than about 290 nm is preferred. Additionally, from about 0.01 to about 1 wt % photoinitiator is preferred weight-to-weight with a preselected cellulosic polymer (*e.g.*, cellulose acetate); however values outside of this range can be desirable dependent upon the cellulosic polymer selected.

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[0260] In general, sterilization of the transcutaneous sensor can be completed after final assembly, utilizing methods such as electron beam radiation, gamma radiation, glutaraldehyde treatment, or the like. The sensor can be sterilized prior to or after packaging. In an alternative embodiment, one or more sensors can be sterilized using variable frequency microwave chamber(s), which can increase the speed and reduce the cost of the sterilization process. In another alternative embodiment, one or more sensors can be sterilized using ethylene oxide (EtO) gas sterilization, for example, by treating with 100% ethylene oxide, which can be used when the sensor electronics are not detachably connected to the sensor and/or when the sensor electronics must undergo a sterilization process. In one embodiment, one or more packaged sets of transcutaneous sensors (*e.g.*, 1, 2, 3, 4, or 5 sensors or more) are sterilized simultaneously.

Mutarotase Enzyme

[0261] In some embodiments, mutarotase, an enzyme that converts α D-glucose to β D-glucose, is incorporated into the membrane system. Mutarotase can be incorporated into the enzyme domain and/or can be incorporated into another domain of the membrane system. In general, glucose exists in two distinct isomers, α and β, which are in equilibrium with one another in solution and in the blood or interstitial fluid. At equilibrium, α is present at a relative concentration of about 35.5% and β is present in the relative concentration of about 64.5% (see Okuda *et. al.*, *Anal Biochem*. 1971 Sep; 43(1):312-5). Glucose oxidase, which is a conventional enzyme used to react with glucose in glucose sensors, reacts with β D-glucose and not with α D-glucose. Since only the β D-glucose isomer reacts with the glucose oxidase, errant readings may occur in a glucose sensor responsive to a shift of the equilibrium between the α D-glucose and the β D-glucose. Many compounds, such as calcium, can affect equilibrium shifts of α D-glucose and β D-glucose. For example, as disclosed in U.S. Patent No. 3,964,974 to Banaugh *et al.*, compounds that exert a mutarotation accelerating effect on α D-glucose include histidine, aspartic acid, imidazole, glutamic acid, α hydroxyl pyridine, and phosphate.

[0262] Accordingly, a shift in α D-glucose and β D-glucose equilibrium can cause a glucose sensor based on glucose oxidase to err high or low. To overcome the risks associated with errantly high or low sensor readings due to equilibrium shifts, the sensor of

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the preferred embodiments can be configured to measure total glucose in the host, including α D-glucose and β D-glucose by the incorporation of the mutarotase enzyme, which converts α D-glucose to β D-glucose.

[0263] Although sensors of some embodiments described herein include an interference domain in order to block or reduce one or more interferents, sensors with the membrane systems of the preferred embodiments, including an electrode domain **47**, an enzyme domain **48**, and a resistance domain **49**, have been shown to inhibit ascorbate without an additional interference domain. Namely, the membrane system of the preferred embodiments, including an electrode domain **47**, an enzyme domain **48**, and a resistance domain **49**, has been shown to be substantially non-responsive to ascorbate in physiologically acceptable ranges. While not wishing to be bound by theory, it is believed that the processing process of spraying the depositing the resistance domain by spray coating, as described herein, forms results in a structural morphology that is substantially resistance resistant to ascorbate.

Oxygen Conduit

[0264] As described above, certain sensors depend upon an enzyme within the membrane system through which the host's bodily fluid passes and in which the analyte (for example, glucose) within the bodily fluid reacts in the presence of a co-reactant (for example, oxygen) to generate a product. The product is then measured using electrochemical methods, and thus the output of an electrode system functions as a measure of the analyte. For example, when the sensor is a glucose oxidase based glucose sensor, the species measured at the working electrode is H_2O_2. An enzyme, glucose oxidase, catalyzes the conversion of oxygen and glucose to hydrogen peroxide and gluconate according to the following reaction:

$$\text{Glucose} + O_2 \rightarrow \text{Gluconate} + H_2O_2$$

[0265] Because for each glucose molecule reacted there is a proportional change in the product, H_2O_2, one can monitor the change in H_2O_2 to determine glucose concentration. Oxidation of H_2O_2 by the working electrode is balanced by reduction of ambient oxygen, enzyme generated H_2O_2 and other reducible species at a counter electrode, for example. See Fraser, D.M., "An Introduction to *In vivo* Biosensing: Progress and

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Problems." In "Biosensors and the Body," D.M. Fraser, ed., 1997, pp. 1-56 John Wiley and Sons, New York)).

[0266] *In vivo,* glucose concentration is generally about one hundred times or more that of the oxygen concentration. Consequently, oxygen is a limiting reactant in the electrochemical reaction, and when insufficient oxygen is provided to the sensor, the sensor is unable to accurately measure glucose concentration. Thus, depressed sensor function or inaccuracy is believed to be a result of problems in availability of oxygen to the enzyme and/or electroactive surface(s).

[0267] Accordingly, in an alternative embodiment, an oxygen conduit (for example, a high oxygen solubility domain formed from silicone or fluorochemicals) is provided that extends from the *ex vivo* portion of the sensor to the *in vivo* portion of the sensor to increase oxygen availability to the enzyme. The oxygen conduit can be formed as a part of the coating (insulating) material or can be a separate conduit associated with the assembly of wires that forms the sensor.

Porous Biointerface Materials

[0268] In alternative embodiments, the distal portion **42** includes a porous material disposed over some portion thereof, which modifies the host's tissue response to the sensor. In some embodiments, the porous material surrounding the sensor advantageously enhances and extends sensor performance and lifetime in the short term by slowing or reducing cellular migration to the sensor and associated degradation that would otherwise be caused by cellular invasion if the sensor were directly exposed to the *in vivo* environment. Alternatively, the porous material can provide stabilization of the sensor via tissue ingrowth into the porous material in the long term. Suitable porous materials include silicone, polytetrafluoroethylene, expanded polytetrafluoroethylene, polyethylene-co-tetrafluoroethylene, polyolefin, polyester, polycarbonate, biostable polytetrafluoroethylene, homopolymers, copolymers, terpolymers of polyurethanes, polypropylene (PP), polyvinylchloride (PVC), polyvinylidene fluoride (PVDF), polyvinyl alcohol (PVA), polybutylene terephthalate (PBT), polymethylmethacrylate (PMMA), polyether ether ketone (PEEK), polyamides, polyurethanes, cellulosic polymers, polysulfones and block copolymers thereof including, for example, di-block, tri-block, alternating, random and graft copolymers,

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as well as metals, ceramics, cellulose, hydrogel polymers, poly (2-hydroxyethyl methacrylate, pHEMA), hydroxyethyl methacrylate, (HEMA), polyacrylonitrile-polyvinyl chloride (PAN-PVC), high density polyethylene, acrylic copolymers, nylon, polyvinyl difluoride, polyanhydrides, poly(l-lysine), poly (L-lactic acid), hydroxyethylmethacrylate, hydroxyapeptite, alumina, zirconia, carbon fiber, aluminum, calcium phosphate, titanium, titanium alloy, nintinol, stainless steel, and CoCr alloy, or the like, such as are described in U.S. Publication No. US-2005-0031689-A1 and U.S. Publication No. US-2005-0112169-A1.

[0269] In some embodiments, the porous material surrounding the sensor provides unique advantages in the short term (*e.g.*, one to 30 days) that can be used to enhance and extend sensor performance and lifetime. However, such materials can also provide advantages in the long term too (*e.g.*, greater than 30 days) and thus are useful in the long term sensors described below. Particularly, the *in vivo* portion of the sensor (the portion of the sensor that is implanted into the host's tissue) is encased (partially or fully) in a porous material. The porous material can be wrapped around the sensor (for example, by wrapping the porous material around the sensor or by inserting the sensor into a section of porous material sized to receive the sensor). Alternately, the porous material can be deposited on the sensor (for example, by electrospinning of a polymer directly thereon). In yet other alternative embodiments, the sensor is inserted into a selected section of porous biomaterial. Other methods for surrounding the *in vivo* portion of the sensor with a porous material can also be used as is appreciated by one skilled in the art.

[0270] The porous material surrounding the sensor advantageously slows or reduces cellular migration to the sensor and associated degradation that would otherwise be caused by cellular invasion if the sensor were directly exposed to the *in vivo* environment. Namely, the porous material provides a barrier that makes the migration of cells towards the sensor more tortuous and therefore slower (providing short term advantages). It is believed that this reduces or slows the sensitivity loss normally observed in a short-term sensor over time.

[0271] In an embodiment wherein the porous material is a high oxygen solubility material, such as porous silicone, the high oxygen solubility porous material surrounds some of or the entire *in vivo* portion **42** of the sensor. High oxygen solubility materials are

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materials that dynamically retain a high availability of oxygen that can be used to compensate for the local oxygen deficit during times of transient ischemia (*e.g.*, silicone and fluorocarbons). It is believed that some signal noise normally seen by a conventional sensor can be attributed to an oxygen deficit. In one exemplary embodiment, porous silicone surrounds the sensor and thereby effectively increases the concentration of oxygen local (proximal) to the sensor. Thus, an increase in oxygen availability proximal to the sensor as achieved by this embodiment ensures that an excess of oxygen over glucose is provided to the sensor; thereby reducing the likelihood of oxygen limited reactions therein. Accordingly, by providing a high oxygen solubility material (*e.g.*, porous silicone) surrounding the *in vivo* portion of the sensor, it is believed that increased oxygen availability, reduced signal noise, longevity, and ultimately enhanced sensor performance can be achieved.

Bioactive Agents

[0272] In some alternative embodiments, a bioactive agent is incorporated into the above described porous material and/or membrane system, which diffuses out into the environment adjacent to the sensing region, such as is described in U.S. Publication No. US-2005-0031689-A1. Additionally or alternately, a bioactive agent can be administered locally at the exit-site or implantation-site. Suitable bioactive agents are those that modify the host's tissue response to the sensor, for example anti-inflammatory agents, anti-infective agents, anesthetics, inflammatory agents, growth factors, immunosuppressive agents, antiplatelet agents, anti-coagulants, anti-proliferates, ACE inhibitors, cytotoxic agents, anti-barrier cell compounds, vascularization-inducing compounds, anti-sense molecules, or mixtures thereof, such as are described in more detail in co-pending U.S. Patent Publication No. US-2005-0031689-A1.

[0273] In embodiments wherein the porous material is designed to enhance short-term (*e.g.*, from about 1 to about 30 days) lifetime or performance of the sensor, a suitable bioactive agent can be chosen to ensure that tissue ingrowth does not substantially occur within the pores of the porous material. Namely, by providing a tissue modifying bioactive agent, such as an anti-inflammatory agent (for example, Dexamethasone), substantially tissue ingrowth can be inhibited, at least in the short term, in order to maintain sufficient glucose transport through the pores of the porous material to maintain a stable sensitivity.

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[0274] In embodiments wherein the porous material is designed to enhance long-term (*e.g.*, from about a day to about a year or more) lifetime or performance of the sensor, a suitable bioactive agent, such as a vascularization-inducing compound or anti-barrier cell compound, can be chosen to encourage tissue ingrowth without barrier cell formation.

[0275] In some alternative embodiments, the *in vivo* portion of the sensor is designed with porosity therethrough, for example, a design wherein the sensor wires are configured in a mesh, loose helix configuration (namely, with spaces between the wires), or with micro-fabricated holes therethrough. Porosity within the sensor modifies the host's tissue response to the sensor, because tissue ingrowth into and/or through the *in vivo* portion of the sensor increases stability of the sensor and/or improves host acceptance of the sensor, thereby extending the lifetime of the sensor *in vivo*.

Sensor Manufacture

[0276] In some embodiments, the sensor is manufactured partially or wholly using a continuous reel-to-reel process, wherein one or more manufacturing steps are automated. In such embodiments, a manufacturing process can be provided substantially without the need for manual mounting and fixing steps and substantially without the need human interaction. A process can be utilized wherein a plurality of sensors of the preferred embodiments, including the electrodes, insulator, and membrane system, are continuously manufactured in a semi-automated or automated process.

[0277] In one embodiment, a plurality of twisted pairs is continuously formed into a coil, wherein a working electrode is coated with an insulator material around which a plurality of reference electrodes is wound. The plurality of twisted pairs are preferably indexed and subsequently moved from one station to the next whereby the membrane system is serially deposited according to the preferred embodiments. Preferably, the coil is continuous and remains as such during the entire sensor fabrication process, including winding of the electrodes, insulator application, and membrane coating processes. After drying of the membrane system, each individual sensor is cut from the continuous coil.

[0278] A continuous reel-to-reel process for manufacturing the sensor eliminates possible sensor damage due to handling by eliminating handling steps, and provides faster manufacturing due to faster trouble shooting by isolation when a product fails. Additionally,

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a process run can be facilitated because of elimination of steps that would otherwise be required (*e.g.*, steps in a manual manufacturing process). Finally, increased or improved product consistency due to consistent processes within a controlled environment can be achieved in a machine or robot driven operation.

[0279] In certain embodiments, vapor deposition (*e.g.*, physical vapor deposition) is utilized to deposit one or more of the membrane domains onto the sensor. Vapor deposition can be used to coat one or more insulating layers onto the electrodes and one or more of the domains of the membrane system onto the electrochemically reactive surfaces. The vapor deposition process can be a part of a continuous manufacturing process, for example, a semi-automated or fully-automated manufacturing process. Physical vapor deposition processes are generally preferred. In such physical vapor deposition processes in the gas phase for forming a thin film, source material is physically transferred in a vacuum to the substrate without any chemical reaction(s) involved. Physical vapor deposition processes include evaporation (*e.g.*, by thermal or e-beam) and sputtering processes. In alternative embodiments, chemical vapor deposition can be used. In chemical vapor deposition processes for depositing a thin film, the substrate is exposed to one or more volatile precursors, which react and/or decompose on the substrate surface to produce the desired deposit. Advantageously, vapor deposition processes can be implemented to provide high production throughput of membrane deposition processes (*e.g.*, deposition on at least about 20 to about 200 or more electrodes per chamber), greater consistency of the membrane on each sensor, and increased uniformity of sensor performance.

Applicator

[0280] Fig. 7 is an exploded side view of an applicator, showing the components that enable sensor and needle insertion. In this embodiment, the applicator **12** includes an applicator body **18** that aides in aligning and guiding the applicator components. Preferably, the applicator body **18** includes an applicator body base **60** that matingly engages the mounting unit **14** and an applicator body cap **62** that enables appropriate relationships (for example, stops) between the applicator components.

[0281] The guide tube subassembly **20** includes a guide tube carrier **64** and a guide tube **66**. In some embodiments, the guide tube is a cannula. The guide tube carrier **64**

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slides along the applicator body **18** and maintains the appropriate relative position of the guide tube **66** during insertion and subsequent retraction. For example, prior to and during insertion of the sensor, the guide tube **66** extends through the contact subassembly **26** to maintain an opening that enables easy insertion of the needle therethrough (see Figs. 8A to 8D). During retraction of the sensor, the guide tube subassembly **20** is pulled back, engaging with and causing the needle and associated moving components to retract back into the applicator **12** (See Figs. 8C and 8D). In some embodiments, a lubricant (*e.g.*, petroleum jelly) is placed within the sealing member **36** of the contact subassembly such that it surrounds the guide tube (*e.g.*, cannula), thereby allowing the guide tube to easily retract back into the applicator, for example, without causing compression or deformation of the sealing member **36**.

[0282] A needle subassembly **68** is provided that includes a needle carrier **70** and needle **72**. The needle carrier **70** cooperates with the other applicator components and carries the needle **72** between its extended and retracted positions. The needle can be of any appropriate size that can encompass the sensor **32** and aid in its insertion into the host. Preferred sizes include from about 32 gauge or less to about 18 gauge or more, more preferably from about 28 gauge to about 25 gauge, to provide a comfortable insertion for the host. Referring to the inner diameter of the needle, approximately 0.006 inches to approximately 0.023 inches is preferable, and 0.013 inches is most preferable. The needle carrier **70** is configured to engage with the guide tube carrier **64**, while the needle **72** is configured to slidably nest within the guide tube **66**, which allows for easy guided insertion (and retraction) of the needle through the contact subassembly **26**.

[0283] A push rod subassembly **74** is provided that includes a push rod carrier **76** and a push rod **78**. The push rod carrier **76** cooperates with other applicator components to ensure that the sensor is properly inserted into the host's skin, namely the push rod carrier **76** carries the push rod **78** between its extended and retracted positions. In this embodiment, the push rod **78** is configured to slidably nest within the needle **72**, which allows for the sensor **32** to be pushed (released) from the needle **72** upon retraction of the needle, which is described in more detail with reference to Figs. 8A through 8D. In some embodiments, a slight bend or serpentine shape is designed into or allowed in the sensor in order to maintain

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the sensor within the needle by interference. While not wishing to be bound by theory, it is believed that a slight friction fit of the sensor within the needle minimizes motion of the sensor during withdrawal of the needle and maintains the sensor within the needle prior to withdrawal of the needle.

[0284] A plunger subassembly **22** is provided that includes a plunger **80** and plunger cap **82**. The plunger subassembly **22** cooperates with other applicators components to ensure proper insertion and subsequent retraction of the applicator components. In this embodiment, the plunger **80** is configured to engage with the push rod to ensure the sensor remains extended (namely, in the host) during retraction, such as is described in more detail with reference to Fig. 8C.

Sensor Insertion

[0285] Figs. 8A through 8D are schematic side cross-sectional views that illustrate the applicator components and their cooperating relationships at various stages of sensor insertion. Fig. 8A illustrates the needle and sensor loaded prior to sensor insertion. Fig. 8B illustrates the needle and sensor after sensor insertion. Fig. 8C illustrates the sensor and needle during needle retraction. Fig. 8D illustrates the sensor remaining within the contact subassembly after needle retraction. Although the embodiments described herein suggest manual insertion and/or retraction of the various components, automation of one or more of the stages can also be employed. For example, spring-loaded mechanisms that can be triggered to automatically insert and/or retract the sensor, needle, or other cooperative applicator components can be implemented.

[0286] Referring to Fig. 8A, the sensor **32** is shown disposed within the needle **72**, which is disposed within the guide tube **66**. In this embodiment, the guide tube **66** is provided to maintain an opening within the contact subassembly **26** and/or contacts **28** to provide minimal friction between the needle **72** and the contact subassembly **26** and/or contacts **28** during insertion and retraction of the needle **72**. However, the guide tube is an optional component, which can be advantageous in some embodiments wherein the contact subassembly **26** and/or the contacts **28** are formed from an elastomer or other material with a relatively high friction coefficient, and which can be omitted in other embodiments wherein the contact subassembly **26** and or the contacts **28** are formed from a material with a

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relatively low friction coefficient (for example, hard plastic or metal). A guide tube, or the like, can be preferred in embodiments wherein the contact subassembly **26** and/or the contacts **28** are formed from a material designed to frictionally hold the sensor **32** (see Fig. 8D), for example, by the relaxing characteristics of an elastomer, or the like. In these embodiments, the guide tube is provided to ease insertion of the needle through the contacts, while allowing for a frictional hold of the contacts on the sensor **32** upon subsequent needle retraction. Stabilization of the sensor in or on the contacts **28** is described in more detail with reference to Fig. 8D and following. Although Fig. 8A illustrates the needle and sensor inserted into the contacts subassembly as the initial loaded configuration, alternative embodiments contemplate a step of loading the needle through the guide tube **66** and/or contacts **28** prior to sensor insertion.

[0287] Referring to Fig. 8B, the sensor **32** and needle **72** are shown in an extended position. In this stage, the pushrod **78** has been forced to a forward position, for example by pushing on the plunger shown in Fig. 7, or the like. The plunger **22** (Fig. 7) is designed to cooperate with other of the applicator components to ensure that sensor **32** and the needle **72** extend together to a forward position (as shown); namely, the push rod **78** is designed to cooperate with other of the applicator components to ensure that the sensor **32** maintains the forward position simultaneously within the needle **72**.

[0288] Referring to Fig. 8C, the needle **72** is shown during the retraction process. In this stage, the push rod **78** is held in its extended (forward) position in order to maintain the sensor **32** in its extended (forward) position until the needle **72** has substantially fully retracted from the contacts **28**. Simultaneously, the cooperating applicator components retract the needle **72** and guide tube **66** backward by a pulling motion (manual or automated) thereon. In preferred embodiments, the guide tube carrier **64** (Fig. 7) engages with cooperating applicator components such that a backward (retraction) motion applied to the guide tube carrier retracts the needle **72** and guide tube **66**, without (initially) retracting the push rod **78**. In an alternative embodiment, the push rod **78** can be omitted and the sensor **32** held it its forward position by a cam, elastomer, or the like, which is in contact with a portion of the sensor while the needle moves over another portion of the sensor. One or more slots can be cut in the needle to maintain contact with the sensor during needle retraction.

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[0289] Referring to Fig. 8D, the needle **72**, guide tube **66**, and push rod **78** are all retracted from contact subassembly **26**, leaving the sensor **32** disposed therein. The cooperating applicator components are designed such that when the needle **72** has substantially cleared from the contacts **28** and/or contact subassembly **26**, the push rod **78** is retracted along with the needle **72** and guide tube **66**. The applicator **12** can then be released (manually or automatically) from the contacts **28**, such as is described in more detail elsewhere herein, for example with reference to Figs. 9D and 10A.

[0290] The preferred embodiments are generally designed with elastomeric contacts to ensure a retention force that retains the sensor **32** within the mounting unit **14** and to ensure stable electrical connection of the sensor **32** and its associated contacts **28**. Although the illustrated embodiments and associated text describe the sensor **32** extending through the contacts **28** to form a friction fit therein, a variety of alternatives are contemplated. In one alternative embodiment, the sensor is configured to be disposed adjacent to the contacts (rather than between the contacts). The contacts can be constructed in a variety of known configurations, for example, metallic contacts, cantilevered fingers, pogo pins, or the like, which are configured to press against the sensor after needle retraction.

[0291] It is generally preferred that a contact **28** is formed from a material with a durometer hardness of from about 5 to about 80 Shore A, more preferably from about 10 to about 50 Shore A, and even more preferably from about 20 to about 50 Shore A. In one implementation of a transcutaneous analyte sensor as described with reference to the preferred embodiments, the contact **28** is formed from a material with a durometer hardness of about 20 Shore A to maximize conformance (*e.g.*, compression) of the contact around the sensor and/or within the sealing member. In another implementation of a transcutaneous analyte sensor as described with reference to the preferred embodiments, the contact **28** is formed from a material with a durometer hardness of about 50 Shore A to increase the strength of the contact **28** (*e.g.*, increase resistance to compression). While a few examples have been provided above, one skilled in the art will appreciate that higher or lower durometer hardness sealing materials can also be advantageously employed.

[0292] In some embodiments, the durometer hardness of the elastomeric contacts **28** is higher than the durometer hardness of the sealing member **36**. In one example, the

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durometer hardness of the contacts is about 50 Shore A and the durometer hardness of the sealing member is about 20 Shore A; however, a variety of durometer hardness materials within the preferred range (typically, from about 5 Shore A to about 80 Shore A) can be chosen. In these embodiments, the higher durometer hardness contacts generally provide greater stability while the lower durometer hardness sealing member generally provides superior compression and/or seal around the contacts.

[0293] In some embodiments, the durometer hardness of the sealing member **36** is higher than the durometer hardness of the elastomeric contacts **28**. In one example, the durometer hardness of the sealing member is about 50 Shore A and the durometer hardness of the contacts is about 20 Shore A, however a variety of durometer hardness materials within the preferred range (typically, from about 5 Shore A to about 80 Shore A) can be chosen. In these embodiments, the higher durometer hardness sealing member provides greater stability while the lower durometer hardness contacts provide superior compression and/or seal.

[0294] The illustrated embodiments are designed with coaxial contacts **28**; namely, the contacts **28** are configured to contact the working and reference electrodes **44**, **46** axially along the distal portion **42** of the sensor **32** (see Fig. 6A). As shown in Fig. 6A, the working electrode **44** extends farther than the reference electrode **46**, which allows coaxial connection of the electrodes **44**, **46** with the contacts **28** at locations spaced along the distal portion of the sensor (see also Figs. 10B and 11B). Although the illustrated embodiments employ a coaxial design, other designs are contemplated within the scope of the preferred embodiments. For example, the reference electrode can be positioned substantially adjacent to (but spaced apart from) the working electrode at the distal portion of the sensor. In this way, the contacts **28** can be designed side-by-side rather than co-axially along the axis of the sensor.

[0295] Fig. 9A is a perspective view of an applicator and mounting unit in one embodiment including a safety latch mechanism **84**. The safety latch mechanism **84** is configured to lock the plunger subassembly **22** in a stationary position such that it cannot be accidentally pushed prior to release of the safety latch mechanism. In this embodiment, the sensor system **10** is preferably packaged (*e.g.*, shipped) in this locked configuration, wherein the safety latch mechanism **84** holds the plunger subassembly **22** in its extended position,

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such that the sensor **32** cannot be prematurely inserted (*e.g.*, accidentally released). The safety latch mechanism **84** is configured such that a pulling force shown in the direction of the arrow (see Fig. 9A) releases the lock of the safety latch mechanism on the plunger subassembly, thereby allowing sensor insertion. Although one safety latch mechanism that locks the plunger subassembly is illustrated and described herein, a variety of safety latch mechanism configurations that lock the sensor to prevent it from prematurely releasing (*i.e.*, that lock the sensor prior to release of the safety latch mechanism) are contemplated, as can be appreciated by one skilled in the art, and fall within the scope of the preferred embodiments.

[0296] Fig. 9A additionally illustrates a force-locking mechanism **86** included in certain alternative embodiments of the sensor system, wherein the force-locking mechanism **86** is configured to ensure a proper mate between the electronics unit **16** and the mounting unit **14** (see Fig. 13A, for example). In embodiments wherein a seal is formed between the mounting unit and the electronics unit, as described in more detail elsewhere herein, an appropriate force may be required to ensure a seal has sufficiently formed therebetween; in some circumstances, it can be advantageous to ensure the electronics unit has been properly mated (*e.g.*, snap-fit or sealingly mated) to the mounting unit. Accordingly, upon release of the applicator **12** from the mounting unit **14** (after sensor insertion), and after insertion of the electronics unit **16** into the mounting unit **14**, the force-locking mechanism **86** allows the user to ensure a proper mate and/or seal therebetween. In practice, a user pivots (*e.g.*, lifts or twists) the force-locking mechanism such that it provides force on the electronics unit **16** by pulling up on the circular tab illustrated in Fig. 9A; the force-locking mechanism is preferably released thereafter. Although one system and one method for providing a secure and/or sealing fit between the electronics unit and the mounting unit are illustrated, various other force-locking mechanisms can be employed that utilize a variety of systems and methods for providing a secure and/or sealing fit between the electronics unit and the mounting unit (housing).

[0297] Figs. 9B to 9D are side views of an applicator and mounting unit in one embodiment, showing various stages of sensor insertion. Fig. 9B is a side view of the applicator matingly engaged to the mounting unit prior to sensor insertion. Fig. 9C is a side

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view of the mounting unit and applicator after the plunger subassembly has been pushed, extending the needle and sensor from the mounting unit (namely, through the host's skin). Fig. 9D is a side view of the mounting unit and applicator after the guide tube subassembly has been retracted, retracting the needle back into the applicator. Although the drawings and associated text illustrate and describe embodiments wherein the applicator is designed for manual insertion and/or retraction, automated insertion and/or retraction of the sensor/needle, for example, using spring-loaded components, can alternatively be employed.

[0298] The preferred embodiments advantageously provide a system and method for easy insertion of the sensor and subsequent retraction of the needle in a single push-pull motion. Because of the mechanical latching system of the applicator, the user provides a continuous force on the plunger cap **82** and guide tube carrier **64** that inserts and retracts the needle in a continuous motion. When a user grips the applicator, his or her fingers grasp the guide tube carrier **64** while his or her thumb (or another finger) is positioned on the plunger cap **82**. The user squeezes his or her fingers and thumb together continuously, which causes the needle to insert (as the plunger slides forward) and subsequently retract (as the guide tube carrier slides backward) due to the system of latches located within the applicator (Figs. 7 to 9) without any necessary change of grip or force, leaving the sensor implanted in the host. In some embodiments, a continuous torque, when the applicator components are configured to rotatingly engage one another, can replace the continuous force. Some prior art sensors, in contrast to the sensors of the preferred embodiments, suffer from complex, multi-step, or multi-component insertion and retraction steps to insert and remove the needle from the sensor system.

[0299] Fig. 9B shows the mounting unit and applicator in the ready position. The sensor system can be shipped in this configuration, or the user can be instructed to mate the applicator **12** with the mounting unit **14** prior to sensor insertion. The insertion angle α is preferably fixed by the mating engagement of the applicator **12**. In the illustrated embodiment, the insertion angle α is fixed in the applicator **12** by the angle of the applicator body base **60** with the shaft of the applicator body **18**. However, a variety of systems and methods of ensuring proper placement can be implemented. Proper placement ensures that at least a portion of the sensor **32** extends below the dermis of the host upon insertion. In

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alternative embodiments, the sensor system **10** is designed with a variety of adjustable insertion angles. A variety of insertion angles can be advantageous to accommodate a variety of insertion locations and/or individual dermis configurations (for example, thickness of the dermis). In preferred embodiments, the insertion angle α is from about 0 to about 90 degrees, more preferably from about 30 to about 60 degrees, and even more preferably about 45 degrees.

[0300] In practice, the mounting unit is placed at an appropriate location on the host's skin, for example, the skin of the arm, thigh, or abdomen. Thus, removing the backing layer **9** from the adhesive pad **8** and pressing the base portion of the mounting unit on the skin adheres the mounting unit to the host's skin.

[0301] Fig. 9C shows the mounting unit and applicator after the needle **72** has been extended from the mounting unit **14** (namely, inserted into the host) by pushing the push rod subassembly **22** into the applicator **12**. In this position, the sensor **32** is disposed within the needle **72** (namely, in position within the host), and held by the cooperating applicator components. In alternative embodiments, the mounting unit and/or applicator can be configured with the needle/sensor initially extended. In this way, the mechanical design can be simplified and the plunger-assisted insertion step can be eliminated or modified. The needle can be simply inserted by a manual force to puncture the host's skin, and only one (pulling) step is required on the applicator, which removes the needle from the host's skin.

[0302] Fig. 9D shows the mounting unit and applicator after the needle **72** has been retracted into the applicator **12**, exposing the sensor **32** to the host's tissue. During needle retraction, the push rod subassembly maintains the sensor in its extended position (namely, within the host). In preferred embodiments, retraction of the needle irreversibly locks the needle within the applicator so that it cannot be accidentally and/or intentionally released, reinserted, or reused. The applicator is preferably configured as a disposable device to reduce or eliminate a possibility of exposure of the needle after insertion into the host. However a reusable or reloadable applicator is also contemplated in some alternative embodiments. After needle retraction, the applicator **12** can be released from the mounting unit, for example, by pressing the release latch(es) **30**, and the applicator disposed of appropriately. In alternative embodiments, other mating and release configurations can be

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implemented between the mounting unit and the applicator, or the applicator can automatically release from the mounting unit after sensor insertion and subsequent needle retraction. In one alternative embodiment, a retention hold (*e.g.,* ball and detent configuration) holds and releases the electronics unit (or applicator).

[0303] In one alternative embodiment, the mounting unit is configured to releasably mate with the applicator and electronics unit in a manner such that when the applicator is releasably mated to the mounting unit (*e.g.,* after sensor insertion), the electronics unit is configured to slide into the mounting unit, thereby triggering release of the applicator and simultaneous mating of the electronics unit to the mounting unit. Cooperating mechanical components, for example, sliding ball and detent type configurations, can be used to accomplish the simultaneous mating of electronics unit and release of the applicator.

[0304] Figs. 9E to 9G are perspective views of a sensor system 310 of an alternative embodiment, including an applicator **312**, electronics unit **316**, and mounting unit **314**, showing various stages of applicator release and/or electronic unit mating. Fig. 9E is a perspective view of the applicator matingly engaged to the mounting unit after sensor insertion. Fig. 9F is a perspective view of the mounting unit and applicator matingly engaged while the electronics unit is slidingly inserted into the mounting unit. Fig. 9G is a perspective view of the electronics unit matingly engaged with the mounting unit after the applicator has been released.

[0305] In general, the sensor system **310** comprises a sensor adapted for transcutaneous insertion into a host's skin; a housing **314** adapted for placement adjacent to the host's skin; an electronics unit **316** releasably attachable to the housing; and an applicator **312** configured to insert the sensor through the housing **314** and into the skin of the host, wherein the applicator **312** is adapted to releasably mate with the housing **314**, and wherein the system **310** is configured to release the applicator **312** from the housing when the electronics unit **316** is attached to the housing **314**.

[0306] Fig. 9E shows the sensor system **310** after the sensor has been inserted and prior to release of the applicator **312**. In this embodiment, the electronics unit **316** is designed to slide into the mounting unit **314**. Preferably, the electronics unit **316** is configured and arranged to slide into the mounting unit **314** in only one orientation. In the

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illustrated embodiment, the insertion end is slightly tapered and dovetailed in order to guide insertion of the electronics unit **316** into the housing **314**; however other self-alignment configurations are possible. In this way, the electronics unit **316** self-aligns and orients the electronics unit **316** in the housing, ensuring a proper fit and a secure electronic connection with the sensor.

[0307] Fig. 9F shows the sensor system **310** after the electronics unit **316** has been inserted therein. Preferably, the electronic unit **316** slide-fits into the mounting unit. In some embodiments, the sensor system **310** can be designed to allow the electronics unit **316** to be attached to the mounting unit **314** (*i.e.*, operably connected to the sensor) before the sensor system **310** is affixed to the host. Advantageously, this design provides mechanical stability for the sensor during transmitter insertion.

[0308] Fig. 9G shows the sensor system **310** upon release of the applicator **312** from the mounting unit **314** and electronics unit **316**. In this embodiment, the sensor system **310** is configured such that mating the electronics unit to the mounting unit triggers the release of the applicator **312** from the mounting unit **314**.

[0309] Thus, the above described sensor system **310**, also referred to as the slide-in system, allows for self-alignment of the electronics unit, creates an improved seal around the contacts due to greater holding force, provides mechanical stability for the sensor during insertion of the electronics unit, and causes automatic release of the applicator and simultaneous lock of the electronics unit into the mounting unit.

[0310] Although the overall design of the sensor system **10** results in a miniaturized volume as compared to numerous conventional devices, as described in more detail below; the sensor system **310** further enables a reduction in volume, as compared to, for example, the sensor system **10** described above.

[0311] Figs. 9H and 9I are comparative top views of the sensor system shown in the alternative embodiment illustrated in Figs. 9E to 9G and compared to the embodiments illustrated elsewhere (see Figs. 1 to 3 and 10 to 12, for example). Namely, the alternative embodiment described with reference to Figs. 9E to 9G further enables reduced size (*e.g.*, mass, volume, and the like) of the device as compared to certain other devices. It has been discovered that the size (including volume and/or surface area) of the device can affect the

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function of the device. For example, motion of the mounting unit/electronics unit caused by external influences (*e.g.*, bumping or other movement on the skin) is translated to the sensor *in vivo*, causing motion artifact (*e.g.*, an effect on the signal, or the like). Accordingly, by enabling a reduction of size, a more stable signal with overall improved patient comfort can be achieved.

[0312] Accordingly, slide-in system **310** described herein, including the systems and methods for inserting the sensor and connecting the electronics unit to the mounting unit, enables the mounting unit **316**/electronics unit **314** subassembly to have a volume of less than about 10 cm^3, more preferably less than about 8 cm^3, and even more preferably less than about 6 cm^3, 5 cm^3, or 4 cm^3 or less. In general, the mounting unit **316**/electronics unit **314** subassembly comprises a first major surface and a second major surface opposite the first major surface. The first and second major surfaces together preferably account for at least about 50% of the surface area of the device; the first and second major surfaces each define a surface area, wherein the surface area of each major surface is less than or equal to about 10 cm^2, preferably less than or equal to about 8 cm^2, and more preferably less than or equal to about 6.5 cm^2, 6 cm^2, 5.5 cm^2, 5 cm^2, 4.5 cm^2, or 4 cm^2 or less. Typically, the mounting unit **316**/electronics unit **314** subassembly has a length **320** of less than about 40 mm by a width **322** of less than about 20 mm and a thickness of less than about 10 mm, and more preferably a length **320** less than or equal to about 35 mm by a width **322** less than or equal to about 18 mm by a thickness of less than or equal to about 9 mm.

[0313] In some embodiments, the mounting unit **14**/electronics unit **16** assembly has the following dimensional properties: preferably a length of about 6 cm or less, more preferably about 5 cm or less, more preferably still about 4.6 cm or less, even more preferably 4 cm or less, and most preferably about 3 cm or less; preferably a width of about 5 cm or less, more preferably about 4 cm or less, even more preferably 3 cm or less, even more preferably still about 2 cm or less, and most preferably about 1.5 cm or less; and/or preferably a thickness of about 2 cm or less, more preferably about 1.3 cm or less, more preferably still about 1 cm or less, even more preferably still about 0.7cm or less, and most preferably about 0.5 cm or less. The mounting unit **14**/electronics unit **16** assembly preferably has a volume of about 20 cm^3 or less, more preferably about 10 cm^3 or less, more preferably still about 5 cm^3

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or less, and most preferably about 3 cm^3 or less; and preferably weighs 12 g or less, more preferably about 9 g or less, and most preferably about 6 g or less, although in some embodiments the electronics unit may weigh more than about 12 g, *e.g.*, up to about 25 g, 45g, or 90 g.

[0314] In some embodiments, the sensor **32** exits the base of the mounting unit **14** at a location distant from an edge of the base. In some embodiments, the sensor **32** exits the base of the mounting unit **14** at a location substantially closer to the center than the edges thereof. While not wishing to be bound by theory, it is believed that by providing an exit port for the sensor **32** located away from the edges, the sensor **32** can be protected from motion between the body and the mounting unit, snagging of the sensor by an external source, and/or environmental contaminants (*e.g.*, microorganisms) that can migrate under the edges of the mounting unit. In some embodiments, the sensor exits the mounting unit away from an outer edge of the device.

[0315] In some alternative embodiments, however, the sensor exits the mounting unit **14** at an edge or near an edge of the device. In some embodiments, the mounting unit is configured such that the exit port (location) of the sensor is adjustable; thus, in embodiments wherein the depth of the sensor insertion is adjustable, six-degrees of freedom can thereby be provided.

Extensible Adhesive Pad

[0316] In certain embodiments, an adhesive pad is used with the sensor system. A variety of design parameters are desirable when choosing an adhesive pad for the mounting unit. For example: 1) the adhesive pad can be strong enough to maintain full contact at all times and during all movements (devices that release even slightly from the skin have a greater risk of contamination and infection), 2) the adhesive pad can be waterproof or water permeable such that the host can wear the device even while heavily perspiring, showering, or even swimming in some cases, 3) the adhesive pad can be flexible enough to withstand linear and rotational forces due to host movements, 4) the adhesive pad can be comfortable for the host, 5) the adhesive pad can be easily releasable to minimize host pain, 6) and/or the adhesive pad can be easily releasable so as to protect the sensor during release. Unfortunately, these design parameters are difficult to simultaneously satisfy using known adhesive pads, for

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example, strong medical adhesive pads are available but are usually non-precise (for example, requiring significant "ripping" force during release) and can be painful during release due to the strength of their adhesion.

[0317] Therefore, the preferred embodiments provide an adhesive pad **8'** for mounting the mounting unit onto the host, including a sufficiently strong medical adhesive pad that satisfies one or more strength and flexibility requirements described above, and further provides a for easy, precise and pain-free release from the host's skin. Fig. 10A is a side view of the sensor assembly, illustrating the sensor implanted into the host with mounting unit adhered to the host's skin via an adhesive pad in one embodiment. Namely, the adhesive pad **8'** is formed from an extensible material that can be removed easily from the host's skin by stretching it lengthwise in a direction substantially parallel to (or up to about 35 degrees from) the plane of the skin. It is believed that this easy, precise, and painless removal is a function of both the high extensibility and easy stretchability of the adhesive pad.

[0318] In one embodiment, the extensible adhesive pad includes a polymeric foam layer or is formed from adhesive pad foam. It is believed that the conformability and resiliency of foam aids in conformation to the skin and flexibility during movement of the skin. In another embodiment, a stretchable solid adhesive pad, such as a rubber-based or an acrylate-based solid adhesive pad can be used. In another embodiment, the adhesive pad comprises a film, which can aid in increasing load bearing strength and rupture strength of the adhesive pad

[0319] Figs. 10B to 10C illustrate initial and continued release of the mounting unit from the host's skin by stretching the extensible adhesive pad in one embodiment. To release the device, the backing adhesive pad is pulled in a direction substantially parallel to (or up to about 35 degrees from) the plane of the device. Simultaneously, the extensible adhesive pad stretches and releases from the skin in a relatively easy and painless manner.

[0320] In one implementation, the mounting unit is bonded to the host's skin via a single layer of extensible adhesive pad **8'**, which is illustrated in Figs. 10A to 10C. The extensible adhesive pad includes a substantially non-extensible pull-tab **52**, which can include a light adhesive pad layer that allows it to be held on the mounting unit **14** prior to

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release. Additionally, the adhesive pad can further include a substantially non-extensible holding tab **54**, which remains attached to the mounting unit during release stretching to discourage complete and/or uncontrolled release of the mounting unit from the skin.

[0321] In one alternative implementation, the adhesive pad **8'** includes two-sides, including the extensible adhesive pad and a backing adhesive pad (not shown). In this embodiment, the backing adhesive pad is bonded to the mounting unit's back surface **25** while the extensible adhesive pad **8'** is bonded to the host's skin. Both adhesive pads provide sufficient strength, flexibility, and waterproof or water permeable characteristics appropriate for their respective surface adhesion. In some embodiments, the backing and extensible adhesive pads are particularly designed with an optimized bond for their respective bonding surfaces (namely, the mounting unit and the skin).

[0322] In another alternative implementation, the adhesive pad **8'** includes a double-sided extensible adhesive pad surrounding a middle layer or backing layer (not shown). The backing layer can comprise a conventional backing film or can be formed from foam to enhance comfort, conformability, and flexibility. Preferably, each side of the double-sided adhesive pad is respectively designed for appropriate bonding surface (namely, the mounting unit and skin). A variety of alternative stretch-release configurations are possible. Controlled release of one or both sides of the adhesive pad can be facilitated by the relative lengths of each adhesive pad side, by incorporation of a non-adhesive pad zone, or the like.

[0323] Figs. 11A and 11B are perspective and side cross-sectional views, respectively, of the mounting unit immediately following sensor insertion and release of the applicator from the mounting unit. In one embodiment, such as illustrated in Figs. 11A and 11B, the contact subassembly **26** is held in its insertion position, substantially at the insertion angle α of the sensor. Maintaining the contact subassembly **26** at the insertion angle α during insertion enables the sensor **32** to be easily inserted straight through the contact subassembly **26**. The contact subassembly **26** further includes a hinge **38** that allows movement of the contact subassembly **26** from an angled to a flat position. The term "hinge," as used herein, is a broad term and is used in its ordinary sense, including, without limitation, a mechanism that allows articulation of two or more parts or portions of a device. The term is broad enough to include a sliding hinge, for example, a ball and detent type hinging mechanism.

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[0324] Although the illustrated embodiments describe a fixed insertion angle designed into the applicator, alternative embodiments can design the insertion angle into other components of the system. For example, the insertion angle can be designed into the attachment of the applicator with the mounting unit, or the like. In some alternative embodiments, a variety of adjustable insertion angles can be designed into the system to provide for a variety of host dermis configurations.

[0325] Fig. 11B illustrates the sensor **32** extending from the mounting unit **14** by a preselected distance, which defines the depth of insertion of the sensor into the host. The dermal and subcutaneous make-up of animals and humans is variable and a fixed depth of insertion may not be appropriate for all implantations. Accordingly, in an alternative embodiment, the distance that the sensor extends from the mounting unit is adjustable to accommodate a variety of host body-types. For example, the applicator **12** can be designed with a variety of adjustable settings, which control the distance that the needle **72** (and therefore the sensor **32**) extends upon sensor insertion. One skilled in the art appreciates a variety of means and mechanisms can be employed to accommodate adjustable sensor insertion depths, which are considered within the scope of the preferred embodiments. The preferred insertion depth is from about 0.1 mm or less to about 2 cm or more, preferably from about 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, or 0.45 mm to about 0.5, 0.6, 0.7, 0.8, 0.9, 1, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, or 1.9 cm.

[0326] Figs. 12A and 12B are perspective and side cross-sectional views, respectively, of the mounting unit after articulating the contact subassembly to its functional position (which is also referred to as an inserted, implanted, or sensing position). The hinge **38** enables the contact subassembly **26** to tilt from its insertion position (Fig. 11) to its functional position (Fig. 12) by pressing downward on the contact subassembly, for example. Certain embodiments provide this pivotal movement via two separate pieces (the contact subassembly **26** and the mounting unit **14** connected by a hinge, for example, a mechanical or adhesive pad joint or hinge). A variety of pivoting, articulating, and/or hinging mechanisms can be employed with the sensors of preferred embodiments. For example, the hinge can be formed as a part of the contact subassembly **26**. The contact subassembly can be formed from a flexible piece of material (such as silicone, urethane rubber, or other flexible or

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elastomeric material), wherein the material is sufficiently flexible to enable bending or hinging of the contact subassembly from an angle appropriate for insertion (Figs. 11A and 11B) to a lower functional configuration (Figs. 12A and 12B).

[0327] The relative pivotal movement of the contact subassembly is advantageous, for example, for enabling the design of a low profile device while providing support for an appropriate needle insertion angle. In its insertion position, the sensor system is designed for easy sensor insertion while forming a stable electrical connection with the associated contacts **28**. In its functional position, the sensor system maintains a low profile for convenience, comfort, and discreetness during use. Thus, the sensor systems of preferred embodiments are advantageously designed with a hinging configuration to provide an optimum guided insertion angle while maintaining a low profile device during sensor use.

[0328] In some embodiments, a shock-absorbing member or feature is incorporated into the design of the sensor and configured to absorb movement of the *in vivo* and/or *ex vivo* portion of the sensor. Conventional analyte sensors can suffer from motion-related artifact associated with host movement when the host is using the device. For example, when a transcutaneous analyte sensor is inserted into the host, various movements on the sensor (for example, relative movement between the *in vivo* portion and the *ex vivo* portion and/or movement within the host) create stresses on the device and can produce noise in the sensor signal. Accordingly in some embodiments, a shock-absorbing member is located on the sensor/mounting unit in a location that absorbs stresses associated with the above-described movement.

[0329] In the preferred embodiments, the sensor **32** bends from a substantially straight to substantially bent configuration upon pivoting of the contact subassembly from the insertion to functional position. The substantially straight sensor configuration during insertion advantageously provides ease of sensor insertion, while the substantial bend in the sensor in its functional position advantageously provides stability on the proximal end of the sensor with flexibility/mobility on the distal end of the sensor. Additionally, motion within the mounting unit (*e.g.*, caused by external forces to the mounting unit, movement of the skin, and the like) does not substantially translate to the *in vivo* portion of the sensor. Namely, the bend formed within the sensor **32** functions to break column strength, causing

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flexion that effectively absorbs movements on the sensor during use. Additionally, the sensor can be designed with a length such that when the contact subassembly **26** is pivoted to its functional position (Fig. 11B), the sensor pushes forward and flexes, allowing it to absorb motion between the *in vivo* and *ex vivo* portions of the sensor. It is believed that both of the above advantages minimize motion artifact on the sensor signal and/or minimize damage to the sensor caused by movement, both of which (motion artifact and damage) have been observed in conventional transcutaneous sensors.

[0330] In some alternative embodiments, the shock-absorbing member can be an expanding and contracting member, such as a spring, accordion, telescoping, or bellows-type device. In general, the shock absorbing member can be located such that relative movement between the sensor, the mounting unit, and the host is absorbed without (or minimally) affecting the connection of the sensor to the mounting unit and/or the sensor stability within the implantation site; for example, the shock-absorbing member can be formed as a part of or connected to the sensor **32**.

[0331] Figs. 13A to 13C are perspective and side views of a sensor system including the mounting unit **14** and electronics unit **16** attached thereto. After sensor insertion, the transcutaneous analyte sensor system **10** measures a concentration of an analyte or a substance indicative of the concentration or presence of the analyte as described above. Although the examples are directed to a glucose sensor, the analyte sensor can be a sensor capable of determining the level of any suitable analyte in the body, for example, oxygen, lactase, insulin, hormones, cholesterol, medicaments, viruses, or the like. Once the electronics unit **16** is connected to the mounting unit **14**, the sensor **32** is able to measure levels of the analyte in the host.

[0332] Detachable connection between the mounting unit **14** and electronics unit **16** provides improved manufacturability, namely, the relatively inexpensive mounting unit **14** can be disposed of when replacing the sensor system after its usable life, while the relatively more expensive electronics unit **16** can be reusable with multiple sensor systems. In certain embodiments, the electronics unit **16** is configured with programming, for example, initialization, calibration reset, failure testing, or the like, each time it is initially inserted into the cavity and/or each time it initially communicates with the sensor **32**. However, an

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integral (non-detachable) electronics unit can be configured as is appreciated by one skilled in the art.

[0333] Referring to the mechanical fit between the mounting unit **14** and the electronics unit **16** (and/or applicator **12**), a variety of mechanical joints are contemplated, for example, snap fit, interference fit, or slide fit. In the illustrated embodiment of Figs. 13A to 13C, tabs **120** are provided on the mounting unit **14** and/or electronics unit **16** that enable a secure connection therebetween. The tabs **120** of the illustrated embodiment can improve ease of mechanical connection by providing alignment of the mounting unit and electronics unit and additional rigid support for force and counter force by the user (*e.g.*, fingers) during connection. However, other configurations with or without guiding tabs are contemplated, such as illustrated in Figs. 11 and 12, for example.

[0334] In some circumstances, a drift of the sensor signal can cause inaccuracies in sensor performance and/or require re-calibration of the sensor. Accordingly, it can be advantageous to provide a sealant, whereby moisture (*e.g.*, water and water vapor) cannot substantially penetrate to the sensor and its connection to the electrical contacts. The sealant described herein can be used alone or in combination with the sealing member **36** described in more detail above, to seal the sensor from moisture in the external environment.

[0335] Preferably, the sealant fills in holes, crevices, or other void spaces between the mounting unit **14** and electronics unit **16** and/or around the sensor **32** within the mounting unit **32**. For example, the sealant can surround the sensor in the portion of the sensor **32** that extends through the contacts **28**. Additionally, the sealant can be disposed within the additional void spaces, for example a hole **122** that extends through the sealing member **36**.

[0336] Preferably, the sealant comprises a water impermeable material or compound, for example, oil, grease, or gel. In one exemplary embodiment, the sealant, which also can be referred to as a lubricant in certain embodiments, comprises petroleum jelly and is used to provide a moisture barrier surrounding the sensor **32**. In one experiment, petroleum jelly was liquefied by heating, after which a sensor **32** was immersed into the liquefied petroleum jelly to coat the outer surfaces thereof. The sensor was then assembled into a housing and inserted into a host, during which deployment the sensor was inserted through the electrical contacts **28** and the petroleum jelly conforming therebetween. Sensors

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incorporating petroleum jelly, such as described above, when compared to sensors without the petroleum jelly moisture barrier exhibited less or no signal drift over time when studied in a humid or submersed environment. While not wishing to be bound by theory, it is believed that incorporation of a moisture barrier surrounding the sensor, especially between the sensor and its associated electrical contacts, reduces or eliminates the effects of humidity on the sensor signal. The viscosity of grease or oil-based moisture barriers allows penetration into and through even small cracks or crevices within the sensor and mounting unit, displacing moisture and thereby increasing the sealing properties thereof. U.S. Patent No. 4,259,540 and U.S. Patent No. 5,285,513 disclose materials suitable for use as a water impermeable material (sealant).

[0337] Referring to the electrical fit between the sensor **32** and the electronics unit **16**, contacts **28** (through which the sensor extends) are configured to electrically connect with mutually engaging contacts on the electronics unit **16**. A variety of configurations are contemplated; however, the mutually engaging contacts operatively connect upon detachable connection of the electronics unit **16** with the mounting unit **14**, and are substantially sealed from external moisture by sealing member **36**. Even with the sealing member, some circumstances can exist wherein moisture can penetrate into the area surrounding the sensor **32** and or contacts, for example, exposure to a humid or wet environment (*e.g.*, caused by sweat, showering, or other environmental causes). It has been observed that exposure of the sensor to moisture can be a cause of baseline signal drift of the sensor over time. For example in a glucose sensor, the baseline is the component of a glucose sensor signal that is not related to glucose (the amount of signal if no glucose is present), which is ideally constant over time. However, some circumstances my exist wherein the baseline can fluctuate over time, also referred to as drift, which can be caused, for example, by changes in a host's metabolism, cellular migration surrounding the sensor, interfering species, humidity in the environment, and the like.

[0338] In some embodiments, the mounting unit is designed to provide ventilation (*e.g.*, a vent hole **124**) between the exit-site and the sensor. In certain embodiments, a filter (not shown) is provided in the vent hole **124** that allows the passage of air, while preventing contaminants from entering the vent hole **124** from the external environment. While not

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wishing to be bound by theory, it is believed that ventilation to the exit-site (or to the sensor **32**) can reduce or eliminate trapped moisture or bacteria, which can otherwise increase the growth and/or lifetime of bacteria adjacent to the sensor.

[0339] In some alternative embodiments, a sealing material is provided, which seals the needle and/or sensor from contamination of the external environment during and after sensor insertion. For example, one problem encountered in conventional transcutaneous devices is infection of the exit-site of the wound. For example, bacteria or contaminants can migrate from *ex vivo*, for example, any *ex vivo* portion of the device or the *ex vivo* environment, through the exit-site of the needle/sensor, and into the subcutaneous tissue, causing contamination and infection. Bacteria and/or contaminants can originate from handling of the device, exposed skin areas, and/or leakage from the mounting unit (external to) on the host. In many conventional transcutaneous devices, there exists some path of migration for bacteria and contaminants to the exit-site, which can become contaminated during sensor insertion or subsequent handling or use of the device. Furthermore, in some embodiments of a transcutaneous analyte sensor, the insertion-aiding device (for example, needle) is an integral part of the mounting unit; namely, the device stores the insertion device after insertion of the sensor, which is isolated from the exit-site (namely, point-of-entry of the sensor) after insertion.

[0340] Accordingly, these alternative embodiments provide a sealing material on the mounting unit, interposed between the housing and the skin, wherein the needle and/or sensor are adapted to extend through, and be sealed by, the sealing material. The sealing material is preferably formed from a flexible material that substantially seals around the needle/sensor. Appropriate flexible materials include malleable materials, elastomers, gels, greases, or the like (*e.g.*, see U.S. Patent No. 4,259,540 and U.S. Patent No. 5,285,513). However, not all embodiments include a sealing material, and in some embodiments a clearance hole or other space surrounding the needle and/or sensor is preferred.

[0341] In one embodiment, the base **24** of the mounting unit **14** is formed from a flexible material, for example silicone, which by its elastomeric properties seals the needle and/or sensor at the exit port **126**, such as is illustrated in Figs. 12A and 12B. Thus, sealing material can be formed as a unitary or integral piece with the back surface **25** of the mounting

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unit **14**, or with an adhesive pad **8** on the back surface of the mounting unit, however alternatively can be a separate part secured to the device. In some embodiments, the sealing material can extend through the exit port **126** above or below the plane of the adhesive pad surface, or the exit port **126** can comprise a septum seal such as those used in the medical storage and disposal industries (for example, silica gel sandwiched between upper and lower seal layers, such as layers comprising chemically inert materials such as PTFE). A variety of known septum seals can be implemented into the exit port of the preferred embodiments described herein. Whether the sealing material is integral with or a separate part attached to the mounting unit **14**, the exit port **126** is advantageously sealed so as to reduce or eliminate the migration of bacteria or other contaminants to or from the exit-site of the wound and/or within the mounting unit.

[0342] During use, a host or caretaker positions the mounting unit at the appropriate location on or near the host's skin and prepares for sensor insertion. During insertion, the needle aids in sensor insertion, after which the needle is retracted into the mounting unit leaving the sensor in the subcutaneous tissue. In this embodiment, the exit-port **126** includes a layer of sealing material, such as a silicone membrane, that encloses the exit-port in a configuration that protects the exit-site from contamination that can migrate from the mounting unit or spacing external to the exit-site. Thus, when the sensor **32** and/or needle **72** extend through, for example, an aperture or a puncture in the sealing material, to provide communication between the mounting unit and subcutaneous space, a seal is formed therebetween. Elastomeric sealing materials can be advantageous in some embodiments because the elasticity provides a conforming seal between the needle/sensor and the mounting unit and/or because the elasticity provides shock-absorbing qualities allowing relative movement between the device and the various layers of the host's tissue, for example.

[0343] In some alternative embodiments, the sealing material includes a bioactive agent incorporated therein. Suitable bioactive agents include those which are known to discourage or prevent bacteria and infection, for example, anti-inflammatory, antimicrobials, antibiotics, or the like. It is believed that diffusion or presence of a bioactive agent can aid in prevention or elimination of bacteria adjacent to the exit-site.

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[0344] In practice, after the sensor **32** has been inserted into the host's tissue, and an electrical connection formed by mating the electronics unit **16** to the mounting unit **14**, the sensor measures an analyte concentration continuously or continually, for example, at an interval of from about fractions of a second to about 10 minutes or more.

[0345] Fig. 14 is a perspective view of a sensor system, including wireless communication between a sensor and a receiver. Preferably the electronics unit **16** is wirelessly connected to a receiver **158** via one- or two-way RF transmissions or the like. However, a wired connection is also contemplated. The receiver **158** provides much of the processing and display of the sensor data, and can be selectively worn and/or removed at the host's convenience. Thus, the sensor system **10** can be discreetly worn, and the receiver **158**, which provides much of the processing and display of the sensor data, can be selectively worn and/or removed at the host's convenience. Particularly, the receiver **158** includes programming for retrospectively and/or prospectively initiating a calibration, converting sensor data, updating the calibration, evaluating received reference and sensor data, and evaluating the calibration for the analyte sensor, such as described in more detail with reference to U.S. Publication No. US-2005-0027463-A1.

[0346] Figs. 15A and 15B are perspective views of a receiver in one preferred embodiment, wherein the receiver, also referred to as a communication station, is provided with a docking station for receiving and holding the electronics unit (from the sensor assembly) when not in use. Preferably, the electronics unit **16** is detachable from and reusable with multiple sensor assemblies **10**, in multiple applications, such as described herein. This embodiment provides a docking station **98** on the receiver **158** that enables storage, electrical connection, and/or battery recharge, for example, for the electronics unit **16** while not in use on a sensor assembly **10**. Complementary contacts or pins can be provided on the electronics unit **16** and the docking station **98** that enable operable connection therebetween. In some embodiments, the receiver includes programming that resets calibration when the electronics unit **16** is docked on the receiver **158**. In some embodiments, the receiver is configured to reset states in the battery, such as initializing a new (unused) electronics unit to work with the receiver when the electronics unit **16** is docked on the receiver **158**.

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[0347] After a sensor's usable life, the host's removes and disposes of the sensor assembly **10**, saving the reusable electronics unit **16** for use with another sensor assembly, which can be a few minutes to a few days later, or more, after disposing of the previous sensor assembly. In some alternative embodiments, the docketing station is provided on an alternative communication station other than the receiver, for example a personal computer, server, personal digital assistant, or the like; wherein the functionality described below can be implemented in a similar manner. In some embodiments, the receiver is configured to test operation of the electronics unit by stepping the electrodes through different current draws and disabling usage of the electronics unit if a failure is detected.

[0348] Thus, the described embodiments provide an analyte sensor assembly that enables a comfortable and reliable system for measuring an analyte level for short term applications, *e.g.*, up to 7 days or more, without surgery. After the usable life of the sensor (for example, due to a predetermined expiration, potential infection, or level of inflammation), the host can remove the sensor and mounting from the skin, dispose of the sensor and mounting unit (preferably saving the electronics unit for reuse). The reusable electronics unit can be inserted with another sensor assembly or be implanted surgically and thus provide continuous sensor output for short or long periods of time in another application. Data provided by the analyte sensor assembly can be used to calibrate other sensors, *e.g.*, long term sensors including the implantable long term glucose sensor described hereinbelow.

Long Term Sensor

[0349] Fig. 16 is an exploded perspective view of one exemplary embodiment of a long term continuous glucose sensor **1310A**. In this embodiment, the sensor is preferably wholly implanted into the subcutaneous tissue of a host, such as described in U.S. Publication No. US-2006-0015020-A1; U.S. Publication No. US-2005-0245799-A1; U.S. Publication No. US-2005-0192557-A1; U.S. Publication No. US-2004-0199059-A1; U.S. Publication No. US-2005-0027463-A1; and U.S. Patent Number 6,001,067. In this exemplary embodiment, a body **1320** and a sensing region **1321** house the electrodes **1322** and sensor electronics (see Fig. 17). The three electrodes **1322** are operably connected to the sensor electronics (see Fig. 17) and are covered by a sensing membrane **1323** and a biointerface membrane **1324**, which are attached by a clip **1325**.

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[0350] In one embodiment, the three electrodes **1322** include a platinum working electrode, a platinum counter electrode, and a silver/silver chloride reference electrode. The top ends of the electrodes are in contact with an electrolyte phase (not shown), which is a free-flowing fluid phase disposed between the sensing membrane **1323** and the electrodes **1322**. The sensing membrane **1323** includes an enzyme, for example, glucose oxidase, and covers the electrolyte phase. The biointerface membrane **1324**, such as described above, covers the sensing membrane **1323** and serves, at least in part, to protect the sensor **1310A** from external forces that can result in environmental stress cracking of the sensing membrane **1323**. U.S. Publication No. US-2005-0112169-A1 describes a biointerface membrane that can be used in conjunction with the preferred embodiments.

[0351] In one embodiment, the biointerface membrane **1324** generally includes a cell disruptive domain most distal from the electrochemically reactive surfaces and a cell impermeable domain less distal from the electrochemically reactive surfaces than the cell disruptive domain. The cell disruptive domain is preferably designed to support tissue ingrowth, disrupt contractile forces typically found in a foreign body response, encourage vascularity within the membrane, and disrupt the formation of a barrier cell layer. The cell impermeable domain is preferably resistant to cellular attachment, impermeable to cells, and composed of a biostable material.

[0352] In one embodiment, the sensing membrane **1323** generally provides one or more of the following functions: 1) supporting tissue ingrowth; 2) protection of the exposed electrode surface from the biological environment, 3) diffusion resistance (limitation) of the analyte, 4) a catalyst for enabling an enzymatic reaction, 5) limitation or blocking of interfering species, and 6) hydrophilicity at the electrochemically reactive surfaces of the sensor interface, such as described in U.S. Publication No. US-2005-0245799-A1. Accordingly, the sensing membrane **1323** preferably includes a plurality of domains or layers, for example, an electrolyte domain, an interference domain, an enzyme domain (for example, glucose oxidase), a resistance domain, and can additionally include an oxygen domain (not shown), and/or a bioprotective domain (not shown), such as described in more detail herein and in U.S. Publication No. US-2005-0245799-A1. However, it is understood that a sensing

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membrane modified for other devices, for example, by including fewer or additional domains is within the scope of the preferred embodiments.

[0353] In some embodiments, the domains of the biointerface and sensing membranes are formed from materials such as silicone, polytetrafluoroethylene, polyethylene-co-tetrafluoroethylene, polyolefin, polyester, polycarbonate, biostable polytetrafluoroethylene, homopolymers, copolymers, terpolymers of polyurethanes, polypropylene (PP), polyvinylchloride (PVC), polyvinylidene fluoride (PVDF), polybutylene terephthalate (PBT), polymethylmethacrylate (PMMA), polyether ether ketone (PEEK), polyurethanes, cellulosic polymers, polysulfones and block copolymers thereof including, for example, di-block, tri-block, alternating, random and graft copolymers. U.S. Publication No. US-2005-0245799-A1 describes biointerface and sensing membrane configurations and materials that can be applied to the preferred embodiments.

[0354] In the illustrated embodiment, the counter electrode is provided to balance the current generated by the species being measured at the working electrode. In the case of a glucose oxidase based glucose sensor, the species being measured at the working electrode is H_2O_2. Glucose oxidase catalyzes the conversion of oxygen and glucose to hydrogen peroxide and gluconate according to the following reaction:

$$\text{Glucose} + O_2 \rightarrow \text{Gluconate} + H_2O_2$$

[0355] The change in H_2O_2 can be monitored to determine glucose concentration because for each glucose molecule metabolized, there is a proportional change in the product H_2O_2. Oxidation of H_2O_2 by the working electrode is balanced by reduction of ambient oxygen, enzyme generated H_2O_2, or other reducible species at the counter electrode. The H_2O_2 produced from the glucose oxidase reaction further reacts at the surface of working electrode and produces two protons ($2H^+$), two electrons ($2e^-$), and one oxygen molecule (O_2).

[0356] In one embodiment, a potentiostat is employed to monitor the electrochemical reaction at the electrochemical cell. The potentiostat applies a constant potential to the working and reference electrodes to determine a current value. The current that is produced at the working electrode (and flows through the circuitry to the counter electrode) is substantially proportional to the amount of H_2O_2 that diffuses to the working

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electrode. Accordingly, a raw signal can be produced that is representative of the concentration of glucose in the user's body, and therefore can be utilized to estimate a meaningful glucose value, such as is described herein.

Sensor electronics

[0357] One example of sensor electronics that may be utilized with either the short term or long term sensors is depicted in the block diagram of Figure 17, illustrating the electronics **132** associated with the sensor system in one embodiment. In this embodiment, a potentiostat **134** is shown, which is operably connected to an electrode system (such as described above) and provides a voltage to the electrodes, which biases the sensor to enable measurement of an current signal indicative of the analyte concentration in the host (also referred to as the analog portion). In some embodiments, the potentiostat includes a resistor (not shown) that translates the current into voltage. In some alternative embodiments, a current to frequency converter is provided that is configured to continuously integrate the measured current, for example, using a charge counting device.

[0358] An A/D converter **136** digitizes the analog signal into a digital signal, also referred to as "counts" for processing. Accordingly, the resulting raw data stream in counts, also referred to as raw sensor data, is directly related to the current measured by the potentiostat **134**.

[0359] A processor module **138** includes the central control unit that controls the processing of the sensor electronics **132**. In some embodiments, the processor module includes a microprocessor, however a computer system other than a microprocessor can be used to process data as described herein, for example an ASIC can be used for some or all of the sensor's central processing. The processor typically provides semi-permanent storage of data, for example, storing data such as sensor identifier (ID) and programming to process data streams (for example, programming for data smoothing and/or replacement of signal artifacts such as is described in U.S. Publication No. US-2005-0043598-A1). The processor additionally can be used for the system's cache memory, for example for temporarily storing recent sensor data. In some embodiments, the processor module comprises memory storage components such as ROM, RAM, dynamic-RAM, static-RAM, non-static RAM, EEPROM, rewritable ROMs, flash memory, or the like.

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[0360] In some embodiments, the processor module comprises a digital filter, for example, an infinite impulse response (IIR) or finite impulse response (FIR) filter, configured to smooth the raw data stream from the A/D converter. Generally, digital filters are programmed to filter data sampled at a predetermined time interval (also referred to as a sample rate). In some embodiments, wherein the potentiostat is configured to measure the analyte at discrete time intervals, these time intervals determine the sample rate of the digital filter. In some alternative embodiments, wherein the potentiostat is configured to continuously measure the analyte, for example, using a current-to-frequency converter as described above, the processor module can be programmed to request a digital value from the A/D converter at a predetermined time interval, also referred to as the acquisition time. In these alternative embodiments, the values obtained by the processor are advantageously averaged over the acquisition time due the continuity of the current measurement. Accordingly, the acquisition time determines the sample rate of the digital filter. In preferred embodiments, the processor module is configured with a programmable acquisition time, namely, the predetermined time interval for requesting the digital value from the A/D converter is programmable by a user within the digital circuitry of the processor module. An acquisition time of from about 2 seconds to about 512 seconds is preferred; however any acquisition time can be programmed into the processor module. A programmable acquisition time is advantageous in optimizing noise filtration, time lag, and processing/battery power.

[0361] Preferably, the processor module is configured to build the data packet for transmission to an outside source, for example, an RF transmission to a receiver as described in more detail below. Generally, the data packet comprises a plurality of bits that can include a preamble, a unique identifier identifying the electronics unit, the receiver, or both, (*e.g.*, sensor ID code), data (*e.g.*, raw data, filtered data, and/or an integrated value) and/or error detection or correction. Preferably, the data (transmission) packet has a length of from about 8 bits to about 128 bits, preferably about 48 bits; however, larger or smaller packets can be desirable in certain embodiments. The processor module can be configured to transmit any combination of raw and/or filtered data. In one exemplary embodiment, the transmission packet contains a fixed preamble, a unique ID of the electronics unit, a single five-minute average (*e.g.*, integrated) sensor data value, and a cyclic redundancy code (CRC).

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[0362] In some embodiments, the processor module further comprises a transmitter portion that determines the transmission interval of the sensor data to a receiver, or the like. In some embodiments, the transmitter portion, which determines the interval of transmission, is configured to be programmable. In one such embodiment, a coefficient can be chosen (*e.g.*, a number of from about 1 to about 100, or more), wherein the coefficient is multiplied by the acquisition time (or sampling rate), such as described above, to define the transmission interval of the data packet. Thus, in some embodiments, the transmission interval is programmable from about 2 seconds to about 850 minutes, more preferably from about 30 second to about 5 minutes; however, any transmission interval can be programmable or programmed into the processor module. However, a variety of alternative systems and methods for providing a programmable transmission interval can also be employed. By providing a programmable transmission interval, data transmission can be customized to meet a variety of design criteria (*e.g.*, reduced battery consumption, timeliness of reporting sensor values, etc.)

[0363] Conventional glucose sensors measure current in the nanoAmp range. In contrast to conventional glucose sensors, the preferred embodiments are configured to measure the current flow in the picoAmp range, and in some embodiments, femtoAmps. Namely, for every unit (mg/dL) of glucose measured, at least one picoAmp of current is measured. Preferably, the analog portion of the A/D converter **136** is configured to continuously measure the current flowing at the working electrode and to convert the current measurement to digital values representative of the current. In one embodiment, the current flow is measured by a charge counting device (*e.g.*, a capacitor). Preferably, a charge counting device provides a value (*e.g.*, digital value) representative of the current flow integrated over time (*e.g.*, integrated value). In some embodiments, the value is integrated over a few seconds, a few minutes, or longer. In one exemplary embodiment, the value is integrated over 5 minutes; however, other integration periods can be chosen. Thus, a signal is provided, whereby a high sensitivity maximizes the signal received by a minimal amount of measured hydrogen peroxide (*e.g.*, minimal glucose requirements without sacrificing accuracy even in low glucose ranges), reducing the sensitivity to oxygen limitations *in vivo* (*e.g.*, in oxygen-dependent glucose sensors).

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[0364] In some embodiments, the electronics unit is programmed with a specific ID, which is programmed (automatically or by the user) into a receiver to establish a secure wireless communication link between the electronics unit and the receiver. Preferably, the transmission packet is Manchester encoded; however, a variety of known encoding techniques can also be employed.

[0365] A battery **144** is operably connected to the sensor electronics **132** and provides the power for the sensor. In one embodiment, the battery is a lithium manganese dioxide battery; however, any appropriately sized and powered battery can be used (for example, AAA, nickel-cadmium, zinc-carbon, alkaline, lithium, nickel-metal hydride, lithium-ion, zinc-air, zinc-mercury oxide, silver-zinc, and/or hermetically-sealed). In some embodiments, the battery is rechargeable, and/or a plurality of batteries can be used to power the system. The sensor can be transcutaneously powered via an inductive coupling, for example. In some embodiments, a quartz crystal **96** is operably connected to the processor **138** and maintains system time for the computer system as a whole, for example for the programmable acquisition time within the processor module.

[0366] Optional temperature probe **140** is shown, wherein the temperature probe is located on the electronics assembly or the glucose sensor itself. The temperature probe can be used to measure ambient temperature in the vicinity of the glucose sensor. This temperature measurement can be used to add temperature compensation to the calculated glucose value.

[0367] An RF module **148** is operably connected to the processor **138** and transmits the sensor data from the sensor to a receiver within a wireless transmission **150** via antenna **152**. In some embodiments, a second quartz crystal **154** provides the time base for the RF carrier frequency used for data transmissions from the RF transceiver. In some alternative embodiments, however, other mechanisms, such as optical, infrared radiation (IR), ultrasonic, or the like, can be used to transmit and/or receive data.

[0368] In the RF telemetry module of the preferred embodiments, the hardware and software are designed for low power requirements to increase the longevity of the device (for example, to enable a life of from about 3 to about 24 months, or more) with maximum RF transmittance from the *in vivo* environment to the *ex vivo* environment for wholly

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implantable sensors (for example, a distance of from about one to ten meters or more). Preferably, a high frequency carrier signal of from about 402 MHz to about 433 MHz is employed in order to maintain lower power requirements. In some embodiments, the RF module employs a one-way RF communication link to provide a simplified ultra low power data transmission and receiving scheme. The RF transmission can be OOK or FSK modulated, preferably with a radiated transmission power (EIRP) fixed at a single power level of typically less than about 100 microwatts, preferably less than about 75 microwatts, more preferably less than about 50 microwatts, and most preferably less than about 25 microwatts.

[0369] Additionally, in wholly implantable devices, the carrier frequency is adapted for physiological attenuation levels, which is accomplished by tuning the RF module in a simulated *in vivo* environment to ensure RF functionality after implantation; accordingly, the preferred glucose sensor can sustain sensor function for 3 months, 6 months, 12 months, or 24 months or more.

[0370] When a sensor is first implanted into host tissue, the sensor and receiver are initialized. This is referred to as start-up mode, and involves optionally resetting the sensor data and calibrating the sensor **32**. In selected embodiments (*e.g.*, transcutaneous sensors), mating the electronics unit **16** to the mounting unit **14** triggers a start-up mode. In other embodiments, the start-up mode is triggered by the receiver, which is described in more detail with reference to Fig. 21, below.

[0371] Preferably, the electronics unit **16** indicates to the receiver (Figs. 14 and 17) that calibration is to be initialized (or re-initialized). The electronics unit **16** transmits a series of bits within a transmitted data packet wherein a sensor code can be included in the periodic transmission of the device. The status code is used to communicate sensor status to the receiving device. The status code can be inserted into any location in the transmitted data packet, with or without other sensor information. In one embodiment, the status code is designed to be unique or near unique to an individual sensor, which can be accomplished using a value that increments, decrements, or changes in some way after the transmitter detects that a sensor has been removed and/or attached to the transmitter. In an alternative

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embodiment, the status code can be configured to follow a specific progression, such as a BCD interpretation of a Gray code.

[0372] In some embodiments (*e.g.*, transcutaneous sensors), the sensor electronics **132** are configured to detect a current drop to zero in the working electrode **44** associated with removal of a sensor **32** from the host (or the electronics unit **16** from the mounting unit **14**), which can be configured to trigger an increment of the status code. If the incremented value reaches a maximum, it can be designed to roll over to 0. In some embodiments, the sensor electronics are configured to detect a voltage change cycle associated with removal and/or re-insertion of the sensor, which can be sensed in the counter electrode (*e.g.*, of a three-electrode sensor), which can be configured to trigger an increment of the status code.

[0373] In some embodiments, the sensor electronics **132** can be configured to send a special value (for example, 0) that indicates that the electronics unit is not attached when removal of the sensor (or electronics unit) is detected. This special value can be used to trigger a variety of events, for example, to halt display of analyte values. Incrementing or decrementing routines can be used to skip this special value.

Data Smoothing

[0374] Typically, an analyte sensor (both short and long term) produces a raw data signal that is indicative of the analyte concentration of a user. The above described glucose sensor is only one example of an abundance of analyte sensors that are able to provide a raw data signal output indicative of the concentration of the analyte of interest. The devices and methods of the preferred embodiments, including data smoothing, calibration, evaluation, and other data processing, can be applied to raw data obtained from any analyte sensor capable of producing a output signal.

[0375] Raw data signals received from an analyte sensor can include signal noise, which degrades the quality of the data. The use of smoothing algorithms help improve the signal-to-noise ratio in the sensor by reducing signal jitter, for example. One example of a conventional data smoothing algorithms include finite impulse response filter (FIR), which is particularly suited for reducing high-frequency noise (see Steil *et al.* U.S. Patent No. 6,558,351). Other analyte sensors have utilized heuristic and moving average type algorithms to accomplish data smoothing of signal jitter in data signals, for example.

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[0376] It is advantageous to also reduce signal noise by attenuating transient, low frequency, non-analyte related signal fluctuations (*e.g.*, transient ischemia and/or long transient periods of postural effects that interfere with sensor function due to lack of oxygen and/or other physiological effects).

[0377] In one embodiment, this attenuation of transient low frequency non-analyte related signal noise is accomplished using a recursive filter. In contrast to conventional non-recursive (*e.g.*, FIR) filters in which each computation uses new input data sets, a recursive filter is an equation that uses moving averages as inputs; that is, a recursive filter includes previous averages as part of the next filtered output. Recursive filters are advantageous at least in part due to their computational efficiency.

[0378] Figure 18 is a graph that illustrates data smoothing of a raw data signal in one embodiment. In this embodiment, the recursive filter is implemented as a digital infinite impulse response filter (IIR) filter, wherein the output is computed using 6 additions and 7 multiplies as shown in the following equation:

$$y(n) = \frac{a_0 * x(n) + a_1 * x(n-1) + a_2 * x(n-2) + a_3 * x(n-3) - b_1 * y(n-1) - b_2 * y(n-2) - b_3 * y(n-3)}{b_0}$$

This polynomial equation includes coefficients that are dependent on sample rate and frequency behavior of the filter. In this exemplary embodiment, frequency behavior passes low frequencies up to cycle lengths of 40 minutes, and is based on a 30 second sample rate.

[0379] In some embodiments, data smoothing can be implemented in the sensor and the smoothed data transmitted to a receiver for additional processing. In other embodiments, raw data can be sent from the sensor to a receiver for data smoothing and additional processing therein. In yet other embodiments, the sensor is integral with the receiver and therefore no transmission of data is required.

[0380] In one exemplary embodiment, where the sensor is an implantable glucose sensor, data smoothing is performed in the sensor to ensure a continuous stream of data. In alternative embodiments, data smoothing can be transmitted from the sensor to the receiver, and the data smoothing performed at the receiver; however that there can be a risk of transmit-loss in the radio transmission from the sensor to the receiver when the transmission

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is wireless. For example, in embodiments wherein a sensor is implemented *in vivo*, the raw sensor signal can be more consistent within the sensor (*in vivo*) than the raw signal transmitted to a source (*e.g.*, receiver) outside the body (*e.g.*, if a patient were to take the receiver off to shower, communication between the sensor and receiver can be lost and data smoothing in the receiver would halt accordingly.) Consequently, a multiple point data loss in the filter can take, for example, anywhere from 25 to 40 minutes for the smoothed data to recover to where it would have been had there been no data loss.

[0381] Other systems and methods for data smoothing and/or for detecting and/or replacing certain sensor data (*e.g.*, signal artifacts or system noise) are described in U.S Publication No. US-2005-0043598-A1.

Receiver

[0382] Figures 19A to 19D are schematic views of a receiver in first, second, third, and fourth embodiments, respectively. A receiver **1640** comprises systems necessary to receive, process, and display sensor data from an analyte sensor, such as described elsewhere herein. Particularly, the receiver **1640** can be a pager-sized device, for example, and comprise a user interface that has a plurality of buttons **1642** and a liquid crystal display (LCD) screen **1644**, and which can include a backlight. In some embodiments the user interface can also include a keyboard, a speaker, and a vibrator such as described with reference to Fig. 20A.

[0383] In some embodiments a user is able to toggle through some or all of the screens shown in Figs. 19A to 19D using a toggle button on the receiver. In some embodiments, the user is able to interactively select the type of output displayed on their user interface. In some embodiments, the sensor output can have alternative configurations.

[0384] Fig. 20A is a block diagram that illustrates the configuration of the medical device in one embodiment, including a continuous analyte sensor, a receiver, and an external device. In general, the analyte sensor system is any sensor configuration that provides an output signal indicative of a concentration of an analyte (*e.g.*, invasive, minimally-invasive, and/or non-invasive sensors as described above). The output signal is sent to a receiver **158** and received by an input module **174**, which is described in more detail below. The output signal is typically a raw data stream that is used to provide a useful value

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of the measured analyte concentration to a patient or a doctor, for example. In some embodiments, the raw data stream can be continuously or periodically algorithmically smoothed or otherwise modified to diminish outlying points that do not accurately represent the analyte concentration, for example due to signal noise or other signal artifacts, such as described in U.S. Patent No. 6,931,327.

[0385] Referring again to Fig. 20A, the receiver **158**, which is operatively linked to the sensor system **10**, receives a data stream from the sensor system **10** via the input module **174**. In one embodiment, the input module includes a quartz crystal operably connected to an RF transceiver (not shown) that together function to receive and synchronize data streams from the sensor system **10**. However, the input module **174** can be configured in any manner that is capable of receiving data from the sensor. Once received, the input module **174** sends the data stream to a processor **176** that processes the data stream, such as is described in more detail below.

[0386] The processor **176** is the central control unit that performs the processing, such as storing data, analyzing data streams, calibrating analyte sensor data, estimating analyte values, comparing estimated analyte values with time corresponding measured analyte values, analyzing a variation of estimated analyte values, downloading data, and controlling the user interface by providing analyte values, prompts, messages, warnings, alarms, or the like. The processor includes hardware and software that performs the processing described herein, for example flash memory provides permanent or semi-permanent storage of data, storing data such as sensor ID, receiver ID, and programming to process data streams (for example, programming for performing estimation and other algorithms described elsewhere herein) and random access memory (RAM) stores the system's cache memory and is helpful in data processing.

[0387] Preferably, the input module **174** or processor module **176** performs a Cyclic Redundancy Check (CRC) to verify data integrity, with or without a method of recovering the data if there is an error. In some embodiments, error correction techniques such as those that use Hamming codes or Reed-Solomon encoding/decoding methods are employed to correct for errors in the data stream. In one alternative embodiment, an iterative decoding technique is employed, wherein the decoding is processed iteratively (*e.g.*, in a

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closed loop) to determine the most likely decoded signal. This type of decoding can allow for recovery of a signal that is as low as 0.5 dB above the noise floor, which is in contrast to conventional non-iterative decoding techniques (such as Reed-Solomon), which requires approximately 3 dB or about twice the signal power to recover the same signal (*e.g.*, a turbo code).

[0388] An output module **178**, which is integral with and/or operatively connected with the processor **176**, includes programming for generating output based on the data stream received from the sensor system **10** and its processing incurred in the processor **176**. In some embodiments, output is generated via a user interface **160**.

[0389] The user interface **160** comprises a keyboard **162**, speaker **164**, vibrator **166**, backlight **168**, liquid crystal display (LCD) screen **170**, and one or more buttons **172**. The components that comprise the user interface **160** include controls to allow interaction of the user with the receiver. The keyboard **162** can allow, for example, input of user information about himself/herself, such as mealtime, exercise, insulin administration, customized therapy recommendations, and reference analyte values. The speaker **164** can produce, for example, audible signals or alerts for conditions such as present and/or estimated hyperglycemic or hypoglycemic conditions in a person with diabetes. The vibrator **166** can provide, for example, tactile signals or alerts for reasons such as described with reference to the speaker, above. The backlight **168** can be provided, for example, to aid the user in reading the LCD **170** in low light conditions. The LCD **170** can be provided, for example, to provide the user with visual data output, such as is described in U.S. Publication No. US-2005-0203360-A1. Figs. 20B to 20D illustrate some additional visual displays that can be provided on the screen **170**. In some embodiments, the LCD is a touch-activated screen, enabling each selection by a user, for example, from a menu on the screen. The buttons **172** can provide for toggle, menu selection, option selection, mode selection, and reset, for example. In some alternative embodiments, a microphone can be provided to allow for voice-activated control.

[0390] In some embodiments, prompts or messages can be displayed on the user interface to convey information to the user, such as reference outlier values, requests for reference analyte values, therapy recommendations, deviation of the measured analyte values

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from the estimated analyte values, or the like. Additionally, prompts can be displayed to guide the user through calibration or trouble-shooting of the calibration.

[0391] In some embodiments, the receiver and/or a device connected to the receiver is configured to audibly output the user's analyte value(s), trend information (increasing or decreasing analyte values), and the like, hereinafter referred to as the audible output module. In some embodiments, the audible output module additionally includes: high and low blood glucose limits at which the module will audibly output the user's analyte value and/or trend information; English and non-English language versions; and choice of male or female voice. In some embodiments, the audible output is transmitted to an earbud worn by the patient for use where privacy is required or by a patient who is somewhat audibly impaired. The audible output module can be particularly advantageous in applications wherein the user is visually and/or hearing impaired, or is unable to visually check their receiver due to other circumstances (*e.g.*, operating a motor vehicle or machinery, engaged in a business meeting or social event, or the like).

[0392] Additionally, data output from the output module **178** can provide wired or wireless, one- or two-way communication between the receiver **158** and an external device **180**. The external device **180** can be any device that wherein interfaces or communicates with the receiver **158**. In some embodiments, the external device **180** is a computer, and the receiver **158** is able to download historical data for retrospective analysis by the patient or physician, for example. In some embodiments, the external device **180** is a modem or other telecommunications station, and the receiver **158** is able to send alerts, warnings, emergency messages, or the like, via telecommunication lines to another party, such as a doctor or family member. In some embodiments, the external device **180** is an insulin pen, and the receiver **158** is able to communicate therapy recommendations, such as insulin amount and time to the insulin pen. In some embodiments, the external device **180** is an insulin pump, and the receiver **158** is able to communicate therapy recommendations, such as insulin amount and time to the insulin pump. The external device **180** can include other technology or medical devices, for example pacemakers, implanted analyte sensor patches, other infusion devices, telemetry devices, or the like.

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[0393] The user interface **160**, including keyboard **162**, buttons **172**, a microphone (not shown), and the external device **180**, can be configured to allow input of data. Data input can be helpful in obtaining information about the patient (for example, meal time, exercise, or the like), receiving instructions from a physician (for example, customized therapy recommendations, targets, or the like), and downloading software updates, for example. Keyboard, buttons, touch-screen, and microphone are all examples of mechanisms by which a user can input data directly into the receiver. A server, personal computer, personal digital assistant, insulin pump, and insulin pen are examples of external devices that can provide useful information to the receiver. Other devices internal or external to the sensor that measure other aspects of a patient's body (for example, temperature sensor, accelerometer, heart rate monitor, oxygen monitor, or the like) can be used to provide input helpful in data processing. In one embodiment, the user interface can prompt the patient to select an activity most closely related to their present activity, which can be helpful in linking to an individual's physiological patterns, or other data processing. In another embodiment, a temperature sensor and/or heart rate monitor can provide information helpful in linking activity, metabolism, and glucose excursions of an individual. While a few examples of data input have been provided here, a variety of information can be input, which can be helpful in data processing.

[0394] Fig. 20B is an illustration of an LCD screen **170** showing continuous and single point glucose information in the form of a trend graph **184** and a single numerical value **186**. The trend graph shows upper and lower boundaries **182** representing a target range between which the host should maintain his/her glucose values. Preferably, the receiver is configured such that these boundaries **182** can be configured or customized by a user, such as the host or a care provider. By providing visual boundaries **182**, in combination with continuous analyte values over time (*e.g.*, a trend graph **184**), a user can better learn how to control his/her analyte concentration (*e.g.*, a person with diabetes can better learn how to control his/her glucose concentration) as compared to single point (single numerical value **186**) alone. Although Fig. 20B illustrates a 1 hour trend graph (*e.g.*, depicted with a time range **188** of 1 hour), a variety of time ranges can be represented on the screen **170**, for example, 3 hour, 9 hour, 1 day, and the like.

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[0395] Fig. 20C is an illustration of an LCD screen **170** showing a low alert screen that can be displayed responsive to a host's analyte concentration falling below a lower boundary (see boundaries **182**). In this exemplary screen, a host's glucose concentration has fallen to 55 mg/dL, which is below the lower boundary set in Fig. 20B, for example. The arrow **190** represents the direction of the analyte trend, for example, indicating that the glucose concentration is continuing to drop. The annotation **192** ("LOW") is helpful in immediately and clearly alerting the host that his/her glucose concentration has dropped below a preset limit, and what may be considered to be a clinically safe value, for example. Fig. 20D is an illustration of an LCD screen **170** showing a high alert screen that can be displayed responsive to a host's analyte concentration rising above an upper boundary (see boundaries **182**). In this exemplary screen, a host's glucose concentration has risen to 200 mg/dL, which is above a boundary set by the host, thereby triggering the high alert screen. The arrow **190** represents the direction of the analyte trend, for example, indicating that the glucose concentration is continuing to rise. The annotation **192** ("HIGH") is helpful in immediately and clearly alerting the host that his/her glucose concentration has above a preset limit, and what may be considered to be a clinically safe value, for example.

[0396] Although a few exemplary screens are depicted herein, a variety of screens can be provided for illustrating any of the information described in the preferred embodiments, as well as additional information. A user can toggle between these screens (*e.g.*, using buttons **172**) and/or the screens can be automatically displayed responsive to programming within the receiver **158**, and can be simultaneously accompanied by another type of alert (audible or tactile, for example).

[0397] In some embodiments the receiver **158** can have a length of from about 8 cm to about 15 cm, a width of from about 3.5 cm to about 10 cm, and/or a thickness of from about 1 cm to about 3.5 cm. In some embodiments the receiver **158** can have a volume of from about 120 cm^3 to about 180 cm^3, and can have a weight of from about 70 g to 130 g. The dimensions and volume can be higher or lower, depending, *e.g.*, on the type of devices integrated (*e.g.*, finger stick devices, pumps, PDAs, and the like.), the type of user interface employed, and the like.

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[0398] In some embodiments, the receiver **158** is an application-specific device. In some embodiments the receiver **158** can be a device used for other functions, such as are described in U.S. Patent 6,558,320. For example, the receiver **158** can be integrated into a personal computer (PC), a personal digital assistant (PDA), a cell phone, or another fixed or portable computing device. The integration of the receiver **158** function into a more general purpose device can comprise the addition of software and/or hardware to the device. Communication between the sensor electronics **16** and the receiver **158** function of the more general purpose device can be implemented with wired or wireless technologies. For example, a PDA can be configured with a data communications port and/or a wireless receiver. After the user establishes a communication link between the electronics unit **16** and the PDA, the electronics unit **16** transmits data to the PDA which then processes the data according to software which has been loaded thereon so as to display.

Sensor Calibration

[0399] Reference is now made to Figure 21, which is a flow chart that illustrates the initial calibration and data output of sensor data from a sensor, *e.g.*, a short term or long term analyte sensor. Calibration of an analyte sensor comprises data processing that uses sensor data and other information to determine an estimated analyte measurement that is meaningful to a user or useful for further data processing. One or more reference values can be used to calibrate the sensor data. In some embodiments, reference values can be obtained from sensor data of another analyte sensor. For example, a substantially continuous short term sensor can be used to calibrate another substantially continuous short term sensor or a substantially continuous long term sensor, or a substantially continuous long term sensor can be used to calibrate another substantially continuous long term sensor or a substantially continuous short term sensor. Reference values can also be obtained from a non-continuous monitoring system, such as a self-monitored blood analyte test (*e.g.*, finger stick blood samples), an optical sensor, etc. However, using sensor data from an already employed substantially continuous short term sensor or a substantially continuous long term sensor can reduce or obviate the need for non-continuous manual measurements to obtain reference data. In addition, reference values can be obtained from *in-vitro* benchtop sources during a benchtop calibration process. For example, reference solutions of analyte may be used for *in-*

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vitro calibration where the reference value for the concentration is known from the reference solution preparation.

[0400] Figure 21 illustrates initial calibration of an analyte sensor using reference data from any reference analyte source, including another analyte sensor (for example, a previously calibrated analyte sensor). At block **261**, a sensor data receiving module, also referred to as the sensor data module, receives sensor data (*e.g.*, a data stream), including one or more time-spaced sensor data points, from a sensor via the receiver, which can be in wired or wireless communication with the sensor. The sensor data point(s) can be smoothed, such as described with reference to Figure 18, above. During the initialization of the sensor, prior to initial calibration, the receiver (*e.g.*, computer system) receives and stores the sensor data. However, the receiver can be configured so that data is not displayed to a user until initial calibration and possibly stabilization of the sensor has been determined.

[0401] At block **262**, a reference data receiving module, also referred to as the reference input module, receives reference data from a reference analyte source, including one or more reference data points. In one embodiment, the reference data is based on sensor data from another substantially continuous analyte sensor, *e.g.*, an analyte sensor described herein, or another type of suitable analyte sensor. For example, a previously calibrated short or long term glucose sensor providing sensor data for a host can provide reference data for use in calibrating sensor data from a long term glucose sensor implanted in the same host.

[0402] At block **263**, a data matching module, also referred to as the processor module, matches reference data (*e.g.*, one or more reference analyte data points) with substantially time corresponding sensor data (*e.g.*, one or more sensor data points) to provide one or more matched data pairs. In one embodiment, one reference data point is matched to one time corresponding sensor data point to form a matched data pair. In another embodiment, a plurality of reference data points are averaged (*e.g.*, equally or non-equally weighted average, mean-value, median, or the like) and matched to one time corresponding sensor data point to form a matched data pair. In another embodiment, one reference data point is matched to a plurality of time corresponding sensor data points averaged to form a matched data pair. In yet another embodiment, a plurality of reference data points are averaged and matched to a plurality of time corresponding sensor data points averaged to

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form a matched data pair. In yet another embodiment, a line is produced from the reference data points as a function of time. The line may be produced by connecting individual data points, from smoothed data points, or as a best-fit through the application of an appropriate algorithm. A line produced from a series of sensor data points may be matched to the line produced from the reference data points.

[0403] To properly associate the sensor data with reference data, a delay in the sensing process can be taken into account. In one embodiment, the reference data is provided by another substantially continuous source that has similar sensor characteristics so that the delay in the sensor data is similar to the delay in the reference data. If the delay is not similar, the data can be appropriately processed to associate the data taken at the same time. In one embodiment where the sensor data is being associated with data from a non-continuous source, time corresponding sensor data comprises one or more sensor data points that occur 5 min (*e.g.*, +/- 2½ minutes) after the reference analyte data timestamp (*e.g.*, the time that the reference analyte data is obtained). In this embodiment, the 15 minute time delay has been chosen to account for an approximately 10 minute delay introduced by the filter used in data smoothing and an approximately 5 minute physiological time-lag (*e.g.*, the time necessary for the analyte to diffusion through a membrane(s) of an analyte sensor). In alternative embodiments, the time corresponding sensor value can be more or less than the above-described embodiment, for example ± 60 minutes. Variability in time correspondence of sensor and reference data can be attributed to, for example a longer or shorter time delay introduced by the data smoothing filter, or if the configuration of the analyte sensor incurs a greater or lesser physiological time lag. In one exemplary embodiment, time delay information from a short term sensor can be used by a long term sensor as described above. In another exemplary embodiment, time delay information from a first short term sensor can be used by a second short term sensor as described above. In yet another exemplary embodiment, time delay information from a first long term sensor can be used by a second long term sensor as described above.

[0404] In some embodiments, tests are used to evaluate the best matched pair using a reference data point against individual sensor values over a predetermined time period (*e.g.*, about 30 minutes). In one such exemplary embodiment, the reference data point

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is matched with sensor data points at 5-minute intervals and each matched pair is evaluated. The matched pair with the best correlation can be selected as the matched pair for data processing. In some alternative embodiments, matching a reference data point with an average of a plurality of sensor data points over a predetermined time period can be used to form a matched pair.

[0405] At block **264**, a calibration set module, also referred to as the processor module, forms an initial calibration set from a set of one or more matched data pairs, which are used to determine the relationship between the reference analyte data and the sensor analyte data, such as will be described in more detail with reference to block **267**, below.

[0406] The matched data pairs, which make up the initial calibration set, can be selected according to predetermined criteria. The criteria for the initial calibration set can be the same as, or different from, the criteria for the update calibration set, which is described in more detail with reference to Figure 24. In some embodiments, the number (n) of data pair(s) selected for the initial calibration set is one. In other embodiments, n data pairs are selected for the initial calibration set wherein n is a function of the frequency of the received reference data points. For example, a substantially continuous analyte sensor can provide numerous data points for use as reference data (*e.g.*, dozens or even hundreds). In one exemplary embodiment, a substantially continuous analyte sensor provides about 288 reference data points per day (about every five minutes for twenty-four hours). In one exemplary embodiment, six data pairs make up the initial calibration set.

[0407] In some embodiments, the data pairs are selected only within a certain analyte value threshold, for example wherein the reference analyte value is from about 40 and to about 400 mg/dL. In some embodiments, the data pairs that form the initial calibration set are selected according to their time stamp. In some embodiments, the calibration set is selected such as described with reference to Figure 24.

[0408] At block **265**, an optional stability determination module, also referred to as the start-up module, determines the stability of the analyte sensor over a period of time. Some analyte sensors can have an initial instability time period during which the analyte sensor is unstable for environmental, physiological, or other reasons. One example of initial sensor instability is an embodiment wherein the analyte sensor is implanted subcutaneously;

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in this example embodiment, stabilization of the analyte sensor can be dependent upon the maturity of the tissue ingrowth around and within the sensor. Another example of initial sensor instability is in an embodiment wherein the analyte sensor is inserted transdermally (*e.g.*, transcutaneously); in this example embodiment, stabilization of the analyte sensor can be dependent upon electrode stabilization and/or sweat, for example.

[0409] Accordingly, in some embodiments, determination of sensor stability can include waiting a predetermined time period (*e.g.*, an implantable sensor is known to require a time period for tissue ingrowth, and a transdermal (*e.g.*, transcutaneous) sensor is known to require time to equilibrate the sensor with the user's tissue); in some embodiments, this waiting period is from about one minute to about six weeks. Although in some embodiments, the sensitivity (*e.g.*, sensor signal strength with respect to analyte concentration) can be used to determine the stability of the sensor; for example, amplitude and/or variability of sensor sensitivity can be evaluated to determine the stability of the sensor. In alternative embodiments, detection of pH levels, oxygen, hypochlorite, interfering species (*e.g.*, ascorbate, urea, and acetaminophen), correlation between sensor and reference values (*e.g.*, R-value), baseline drift and/or offset, and the like can be used to determine the stability of the sensor. In one exemplary embodiment, wherein the sensor is a glucose sensor, it is known to provide a signal that is associated with interfering species (*e.g.*, ascorbate, urea, acetaminophen), which can be used to evaluate sensor stability. In another exemplary embodiment, wherein the sensor is a glucose sensor such as described with reference to Figs. 8 and 9, the counter electrode can be monitored for oxygen deprivation, which can be used to evaluate sensor stability or functionality. Numerous other systems and methods for evaluating sensor stability or functionality are described in U.S. Publication No. US-2005-0043598-A1. In one embodiment employing a long term implantable sensor that requires a waiting period, a short term sensor or a series of short term sensors employed for the same user provides sensor data to the user during the waiting period. In an embodiment employing a series of short term sensors, the sensors can be employed so that they provide sensor data in discrete or overlapping periods. In such embodiments, the sensor data from one short term sensor can be used to calibrate another short term sensor, or be used to confirm the validity of a subsequently employed short term sensor. The data can also be used for calibrating the

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implantable long term sensor so that data from the long term sensor can be used immediately upon completion of the waiting period.

[0410] At decision block **266**, the system (*e.g.*, microprocessor) determines whether the analyte sensor is sufficiently stable according to certain criteria, such as described above. In one embodiment wherein the sensor is an implantable glucose sensor, the system waits a predetermined time period believed necessary for sufficient tissue ingrowth and evaluates the sensor sensitivity (*e.g.*, from about one minute to about six weeks). In another embodiment, the receiver determines sufficient stability based on oxygen concentration near the sensor head. In yet another embodiment, the sensor determines sufficient stability based on a reassessment of baseline drift and/or offset. A few examples of determining sufficient stability are given here, however a variety of known tests and parameters can be used to determine sensor stability without departing from the spirit and scope of the preferred embodiments.

[0411] If the receiver does not assess that the stability of the sensor is sufficient, then the processing returns to block **261**, wherein the receiver receives sensor data such as described in more detail above. The above-described steps are repeated until sufficient stability is determined.

[0412] If the receiver does assess that the stability of the sensor is sufficient, then processing continues to block **267** and the calibration set is used to calibrate the sensor.

[0413] At block **267**, the conversion function module uses the calibration set to create a conversion function. The conversion function substantially defines the relationship between the reference analyte data and the analyte sensor data.

[0414] A variety of known methods can be used with the preferred embodiments to create the conversion function from the calibration set. In one embodiment, wherein a plurality of matched data points form the initial calibration set, a linear least squares regression is performed on the initial calibration set such as described with reference to Figure 14A.

[0415] Figure 22A is a graph that illustrates a regression performed on a calibration set to create a conversion function in one exemplary embodiment. In this embodiment, a linear least squares regression is performed on the initial calibration set. The

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x-axis represents reference analyte data; the y-axis represents sensor data. The graph pictorially illustrates regression of the matched pairs **276** in the calibration set. Regression calculates a slope **272** and an offset **274** (y=mx+b), which defines the conversion function.

[0416] In alternative embodiments other algorithms could be used to determine the conversion function, for example forms of linear and non-linear regression, for example fuzzy logic, neural networks, piece-wise linear regression, polynomial fit, genetic algorithms, and other pattern recognition and signal estimation techniques.

[0417] In yet other alternative embodiments, the conversion function can comprise two or more different optimal conversions to account for optimal conversion variability due to dependence on parameters, such as time of day, calories consumed, exercise, or analyte concentration above or below a set threshold, for example. In one such exemplary embodiment, the conversion function is adapted for the estimated glucose concentration (*e.g.*, high vs. low). For example, in an implantable glucose sensor, it has been observed that the cells surrounding the implant will consume at least a small amount of glucose as it diffuses toward the glucose sensor. Assuming the cells consume substantially the same amount of glucose whether the glucose concentration is low or high, this phenomenon will have a greater effect on the concentration of glucose during low blood sugar episodes than the effect on the concentration of glucose during relatively higher blood sugar episodes. Accordingly, the conversion function is adapted to compensate for the sensitivity differences in blood sugar level. In one implementation, the conversion function comprises two different regression lines wherein a first regression line is applied when the estimated blood glucose concentration is at or below a certain threshold (*e.g.*, 150 mg/dL) and a second regression line is applied when the estimated blood glucose concentration is at or above a certain threshold (*e.g.*, 150 mg/dL). In one alternative implementation, a predetermined pivot of the regression line that forms the conversion function can be applied when the estimated blood is above or below a set threshold (*e.g.*, 150 mg/dL), wherein the pivot and threshold are determined from a retrospective analysis of the performance of a conversion function and its performance at a range of glucose concentrations. In another implementation, the regression line that forms the conversion function is pivoted about a point in order to comply with clinical acceptability standards (*e.g.*, Clarke Error Grid,

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Consensus Grid, mean absolute relative difference, or other clinical cost function). Although only a few example implementations are described, the preferred embodiments contemplate numerous implementations where the conversion function is adaptively applied based on one or more parameters that can affect the sensitivity of the sensor data over time.

[0418] In some alternative embodiments, the sensor is calibrated with a single-point through the use of a dual-electrode system to simplify sensor calibration. In one such dual-electrode system, a first electrode functions as a hydrogen peroxide sensor including a membrane system containing glucose-oxidase disposed thereon, which operates as described herein. A second electrode is a hydrogen peroxide sensor that is configured similar to the first electrode, but with a modified membrane system (with the enzyme domain removed, for example). This second electrode provides a signal composed mostly of the baseline signal, *b*.

[0419] In some dual-electrode systems, the baseline signal is (electronically or digitally) subtracted from the glucose signal to obtain a glucose signal substantially without baseline. Accordingly, calibration of the resultant difference signal can be performed by solving the equation $y = mx$ with a single paired measurement. Calibration of the implanted sensor in this alternative embodiment can be made less dependent on the values/range of the paired measurements, less sensitive to error in manual blood glucose measurements, and can facilitate the sensor's use as a primary source of glucose information for the user. U.S. Publication No. US-2005-0143635-A1 describes systems and methods for subtracting the baseline from a sensor signal.

[0420] In some alternative dual-electrode system embodiments, the analyte sensor is configured to transmit signals obtained from each electrode separately (*e.g.*, without subtraction of the baseline signal). In this way, the receiver can process these signals to determine additional information about the sensor and/or analyte concentration. For example, by comparing the signals from the first and second electrodes, changes in baseline and/or sensitivity can be detected and/or measured and used to update calibration (*e.g.*, without the use of a reference analyte value). In one such example, by monitoring the corresponding first and second signals over time, an amount of signal contributed by baseline can be measured. In another such example, by comparing fluctuations in the correlating signals over time, changes in sensitivity can be detected and/or measured.

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[0421] In some alternative embodiments, a regression equation $y=mx+b$ is used to calculate the conversion function; however, prior information can be provided for m and/or b, thereby enabling calibration to occur with fewer paired measurements. In one calibration technique, prior information (*e.g.*, obtained from *in vivo* or *in vitro* tests) determines a sensitivity of the sensor and/or the baseline signal of the sensor by analyzing sensor data from measurements taken by the sensor (*e.g.*, prior to inserting the sensor). For example, if there exists a predictive relationship between *in vitro* sensor parameters and *in vivo* parameters, then this information can be used by the calibration procedure. For example, if a predictive relationship exists between *in vitro* sensitivity and *in vivo* sensitivity, $m \approx f(m_{in\ vitro})$, then the predicted m can be used, along with a single matched pair, to solve for b ($b = y - mx$). If, in addition, b can be assumed to be 0, for example with a dual-electrode configuration that enables subtraction of the baseline from the signal such as described above, then both m and b are known *a priori*, matched pairs are not needed for calibration, and the sensor can be completely calibrated *e.g.* without the need for reference analyte values (*e.g.* values obtained after implantation *in vivo*.)

[0422] In another alternative embodiment, prior information can be provided to guide or validate the baseline (b) and/or sensitivity (m) determined from the regression analysis. In this embodiment, boundaries can be set for the regression line that defines the conversion function such that working sensors are calibrated accurately and easily (with two points), and non-working sensors are prevented from being calibrated. If the boundaries are drawn too tightly, a working sensor may not enter into calibration. Likewise, if the boundaries are drawn too loosely, the scheme can result in inaccurate calibration or can permit non-working sensors to enter into calibration. For example, subsequent to performing regression, the resulting slope and/or baseline are tested to determine whether they fall within a predetermined acceptable threshold (boundaries). These predetermined acceptable boundaries can be obtained from *in vivo* or *in vitro* tests (*e.g.*, by a retrospective analysis of sensor sensitivities and/or baselines collected from a set of sensors/patients, assuming that the set is representative of future data).

[0423] If the slope and/or baseline fall within the predetermined acceptable boundaries, then the regression is considered acceptable. Alternatively, if the slope and/or

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baseline fall outside the predetermined acceptable boundaries, steps can be taken to either correct the regression or fail-safe such that a system will not process or display errant data. This can be useful in situations wherein regression results in errant slope or baseline values. For example, when points (matched pairs) used for regression are too close in value, the resulting regression statistically is less accurate than when the values are spread farther apart. As another example, a sensor that is not properly deployed or is damaged during deployment can yield a skewed or errant baseline signal.

[0424] Figure 22B is a graph that illustrates one example of using prior information for slope and baseline. The x-axis represents reference glucose data (blood glucose) from a reference glucose source in mg/dL; the y-axis represents sensor data from a transcutaneous glucose sensor of the preferred embodiments in counts. An upper boundary line **215** is a regression line that represents an upper boundary of "acceptability" in this example; the lower boundary line **216** is a regression line that represents a lower boundary of "acceptability" in this example. The boundary lines **215**, **216** were obtained from retrospective analysis of *in vivo* sensitivities and baselines of glucose sensors as described in the preferred embodiments.

[0425] A plurality of matched data pairs **217** represent data pairs in a calibration set obtained from a glucose sensor as described in the preferred embodiments. The matched data pairs are plotted according to their sensor data and time-corresponding reference glucose data. A regression line **218** represents the result of regressing the matched data pairs **217** using least squares regression. In this example, the regression line falls within the upper and lower boundaries **215**, **216** indicating that the sensor calibration is acceptable.

[0426] However, if the slope and/or baseline had fallen outside the predetermined acceptable boundaries, which would be illustrated in this graph by a line that crosses the upper and/or lower boundaries **215**, **216**, then the system may be configured to assume a preset baseline value and re-run the regression (or a modified version of the regression) with the assumed baseline, where the assumed baseline value is derived from *in vivo* or *in vitro* testing. Subsequently, the newly derived slope and baseline are again tested to determine whether they fall within the predetermined acceptable boundaries. The processing continues in response to the results of the boundary test in a similar fashion. In general, for a set of

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matched pairs (*e.g.,* a calibration set), regression lines with higher slope (sensitivity) have a lower baseline while regression lines with lower slope (sensitivity) have a higher baseline. Accordingly, the step of assuming a baseline and testing against boundaries can be repeated using a variety of different assumed baselines based on the baseline, sensitivity, *in vitro* testing, and/or *in vivo* testing. For example, if a boundary test fails due to high sensitivity, then a higher baseline is assumed and the regression re-run and boundary-tested. It is preferred that after about two iterations of assuming a baseline and/or sensitivity and running a modified regression, the system assumes an error has occurred (if the resulting regression lines fall outside the boundaries) and fail-safe. The term "fail-safe" includes modifying the system processing and/or display of data responsive to a detected error to avoid reporting of inaccurate or clinically irrelevant analyte values.

[0427] In yet another alternative embodiment, information obtained prior to sensor insertion can be provided for selecting the baseline (*b*) and/or slope (*m*) determined from the regression analysis. For example, a distribution of slopes and/or baselines typically obtained may be determined (or estimated) from retrospective analysis of a sample set of implanted sensors. This prior distribution information may be used to enable the sensor system to select a preferred combination of slope and/or baseline to be used in calibration.

[0428] In some embodiments, when one or more matched pairs are obtained from a sensor implanted in a host (as described elsewhere herein), a plurality of possible calibration lines can be drawn dependent upon the method of utilizing these matched pairs to draw a calibration line. For example, where only a single matched pair is obtained, numerous calibration lines having various baselines and slopes may be drawn through the single matched pair. The single matched pair alone does not provide enough information to determine the best calibration line. Similarly, where multiple matched pairs are obtained that are clustered closely together, numerous calibration lines may be drawn that pass close to all of the matched pairs in the cluster (*e.g.*, numerous calibration lines are similarly correlated with the matched pairs). In some circumstances, some of these multiple calibration lines may not represent the best calibration (*e.g.*, due to error in the reference glucose, small distribution of pairs, only one matched pair, and the like). Accordingly, in one embodiment, prior

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information regarding the typical distribution of slopes and/or baselines may be used to select one of the multiple calibration lines.

[0429] In one embodiment, a baseline can be selected, during calibration, based on the prior distribution information described above (*e.g.*, by selecting the most probable baseline from the distribution of baselines). In another embodiment, a slope can be selected, during calibration, based on the prior distribution information described above (*e.g.*, by selecting the most probable slope from the distribution of slopes). In a preferred embodiment, both a baseline and slope are selected, during calibration, based on the prior distribution information described above. For example, in one embodiment, of the possible multiple calibration lines, the calibration line is chosen that has a slope and baseline closest to the maximum joint probability of both the slope and baseline distributions. In some embodiments, preference may be given to either the slope or baseline such that having either a slope or baseline closer to its most probable value is weighted more heavily.

[0430] In one embodiment, depicted in Figure 22C, the slope and baseline closest to the maximum joint probability may be determined geometrically (*e.g.*, when both the slope and baseline have normal distributions). In Figure 22C, each slope and baseline determined (or estimated) from retrospective analysis is plotted as a matched pair **230** in a slope-baseline plot. The set of matched pairs **230** form a cloud distribution, with the center of highest density corresponding to the highest probability of slope and baseline combination. The set of possible calibration lines for the sensor to be calibrated (*e.g.*, from regression of a single matched pair or set of closely spaced matched pairs) make up a line **232** in the slope-baseline plot. In one embodiment, the point on this line **234** closest to the center of highest matched pair **230** density may be chosen as providing the slope and baseline of the selected calibration line. Either the slope or the baseline probabilities may be given preference by scaling the cloud distribution along either the baseline or slope axes.

[0431] The use of prior distribution information may be extended to more complex cases. For example, in some embodiments, the desired calibration curve is not linear (*e.g.*, it has three or more parameters). In such cases, the most probable set of parameters (*e.g.*, based on the prior distributions) the still correlates with the calibration data may be used to define the calibration curve.

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[0432] In these various embodiments, utilizing an additional electrode, prior information (*e.g.*, *in vitro* or *in vivo* testing), signal processing, or other information for assisting in the calibration process can be used alone or in combination to reduce or eliminate the dependency of the calibration on reference analyte values obtained by the host.

[0433] Referring again to Figure 21, at block **268**, a sensor data transformation module uses the conversion function to transform sensor data into substantially real-time analyte value estimates, also referred to as calibrated data, as sensor data is continuously (or intermittently) received from the sensor. For example, in the embodiment of Figure 22A, the sensor data, which can be provided to the receiver in "counts," is translated to estimate analyte value(s) in mg/dL. In other words, the offset value at any given point in time can be subtracted from the raw value (*e.g.*, in counts) and divided by the slope to obtain the estimated analyte value:

$$mg/dL = \frac{(rawvalue - offset)}{slope}$$

[0434] In some alternative embodiments, the sensor and/or reference analyte values are stored in a database for retrospective analysis.

[0435] At block **269**, an output module provides output to the user via the user interface. The output is representative of the estimated analyte value, which is determined by converting the sensor data into a meaningful analyte value such as described in more detail with reference to block **268**, above. User output can be in the form of a numeric estimated analyte value, an indication of directional trend of analyte concentration, and/or a graphical representation of the estimated analyte data over a period of time, for example. Other representations of the estimated analyte values are also possible, for example audio and tactile. Accordingly, after initial calibration of the sensor, and possibly determination of stability of the sensor data, real-time continuous analyte information can be displayed on the user interface so that the user can regularly and proactively care for his/her diabetic condition within the bounds set by his/her physician.

[0436] In alternative embodiments, the conversion function is used to predict analyte values at future points in time. These predicted values can be used to alert the user of upcoming hypoglycemic or hyperglycemic events. Additionally, predicted values can be used to compensate for the time lag (*e.g.*, 15 minute time lag such as described elsewhere

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herein), so that an estimate analyte value displayed to the user represents the instant time, rather than a time delayed estimated value.

[0437] In some embodiments, the substantially real time estimated analyte value, a predicted future estimate analyte value, a rate of change, and/or a directional trend of the analyte concentration is used to control the administration of a constituent to the user, including an appropriate amount and time, in order to control an aspect of the user's biological system. One such example is a closed loop glucose sensor and insulin pump, wherein the analyte data (*e.g.*, estimated glucose value, rate of change, and/or directional trend) from the glucose sensor is used to determine the amount of insulin, and time of administration, that can be given to a diabetic user to evade hyper- and hypoglycemic conditions.

[0438] The conventional analyte meters (*e.g.*, self-monitored blood analyte tests) are known to have a +-20% error in analyte values. For example, gross errors in analyte readings are known to occur due to patient error in self-administration of the blood analyte test. In one such example, if the user has traces of sugar on his/her finger while obtaining a blood sample for a glucose concentration test, then the measured glucose value will likely be much higher than the actual glucose value in the blood. Additionally, it is known that self-monitored analyte tests (*e.g.*, test strips) are occasionally subject to manufacturing error.

[0439] Another cause for error includes infrequency and time delay that can occur if a user does not self-test regularly, or if a user self-tests regularly but does not enter the reference value at the appropriate time or with the appropriate time stamp. Providing reference data using a substantially continuous sensor overcomes those errors associated with irregular self-tests. To ensure the validity of the sensor data, the receiver can be configured to evaluate the clinical acceptability of received reference analyte data prior to their acceptance as a valid reference value.

[0440] In one embodiment, the reference analyte data (and/or sensor analyte data) is evaluated with respect to substantially time corresponding sensor data (and/or substantially time corresponding reference analyte data) to determine the clinical acceptability of the reference analyte and/or sensor analyte data. Clinical acceptability considers a deviation between time corresponding glucose measurements (*e.g.*, data from a glucose sensor and data

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from a reference glucose monitor) and the risk (*e.g.*, to the decision making of a diabetic patient) associated with that deviation based on the glucose value indicated by the sensor and/or reference data. Evaluating the clinical acceptability of reference and sensor analyte data, and controlling the user interface dependent thereon, can minimize clinical risk.

[0441] In one embodiment, the receiver evaluates clinical acceptability each time reference data is obtained. In another embodiment, the receiver evaluates clinical acceptability after the initial calibration and stabilization of the sensor, such as described with reference to Figure 21, above. In some embodiments, the receiver evaluates clinical acceptability as an initial pre-screen of reference analyte data, for example after determining if the reference glucose measurement is from about 40 to about 400 mg/dL. In other embodiments, other methods of pre-screening data can be used, for example by determining if a reference analyte data value is physiologically feasible based on previous reference analyte data values (*e.g.*, below a maximum rate of change).

[0442] After initial calibration such as described in more detail with reference to Figure 21, the sensor data receiving module **261** receives substantially continuous sensor data (*e.g.*, a data stream) via a receiver and converts that data into estimated analyte values. As used herein, "substantially continuous" is broad enough to include a data stream of individual measurements taken at time intervals (*e.g.*, time-spaced) of from fractions of a second up to, *e.g.*, 1, 2, or 5 minutes. As sensor data is continuously converted, it can be occasionally recalibrated such as described in more detail below with reference to Figure 24. Initial calibration and re-calibration of the sensor requires a reference analyte value. Accordingly, the receiver can receive reference analyte data at any time for appropriate processing. These reference analyte values can be evaluated for clinical acceptability such as described below as a fail-safe against reference analyte test errors.

[0443] In some embodiments, the reference data is pre-screened according to environmental and physiological issues, such as time of day, oxygen concentration, postural effects, and patient-entered environmental data. In one example embodiment, wherein the sensor comprises an implantable glucose sensor, an oxygen sensor within the glucose sensor is used to determine if sufficient oxygen is being provided to successfully complete the necessary enzyme and electrochemical reactions for glucose sensing. In another example

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embodiment wherein the sensor comprises an implantable glucose sensor, the counter electrode could be monitored for a "rail-effect", that is, when insufficient oxygen is provided at the counter electrode causing the counter electrode to reach operational (*e.g.*, circuitry) limits.

[0444] In some embodiments, a clinical acceptability evaluation module in the receiver (not shown), also referred to as a clinical module, evaluates newly received reference data and/or time corresponding sensor data. In some embodiments of evaluating clinical acceptability, the rate of change of the reference data as compared to previous data is assessed for clinical acceptability. That is, the rate of change and acceleration (or deceleration) of many analytes has certain physiological limits within the body. Accordingly, a limit can be set to determine if the new matched pair is within a physiologically feasible range, indicated by a rate of change from the previous data that is within known physiological and/or statistical limits. Similarly, in some embodiments any algorithm that predicts a future value of an analyte can be used to predict and then compare an actual value to a time corresponding predicted value to determine if the actual value falls within a clinically acceptable range based on the predictive algorithm, for example.

[0445] In one exemplary embodiment, the clinical acceptability evaluation module matches the reference data with a substantially time corresponding converted sensor value such as described with reference to Figure 21 above, and plots the matched data on a Clarke Error Grid such as described in more detail with reference to Figure 23.

[0446] Figure 23 is a graph of two data pairs on a Clarke Error Grid to illustrate the evaluation of clinical acceptability in one exemplary embodiment. The Clarke Error Grid can be used by the clinical acceptability evaluation module to evaluate the clinical acceptability of the disparity between a reference glucose value and a sensor glucose (*e.g.*, estimated glucose) value, if any, in an embodiment wherein the sensor is a glucose sensor. The x-axis represents glucose reference glucose data and the y-axis represents estimated glucose sensor data. Matched data pairs are plotted accordingly to their reference and sensor values, respectively. In this embodiment, matched pairs that fall within the A and B regions of the Clarke Error Grid are considered clinically acceptable, while matched pairs that fall within the C, D, and E regions of the Clarke Error Grid are not considered clinically

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acceptable. Particularly, Figure 23 shows a first matched pair **1992** is shown which falls within the A region of the Clarke Error Grid, therefore is it considered clinically acceptable. A second matched pair 94 is shown which falls within the C region of the Clarke Error Grid, therefore it is not considered clinically acceptable. Further description of evaluating reference data for its clinical acceptability is included in U.S. Publication No. US-2005-0027180-A1.

[0447] Reference is now made to Figure 24, which is a flow chart that illustrates the process of evaluation of calibration data for best calibration based on inclusion criteria of matched data pairs in one embodiment.

[0448] Calibration of analyte sensors can be variable over time; that is, the conversion function suitable for one point in time may not be suitable for another point in time (*e.g.*, hours, days, weeks, or months later). For example, in an embodiment wherein the analyte sensor is subcutaneously implantable, the maturation of tissue ingrowth over time can cause variability in the calibration of the analyte sensor. As another example, physiological changes in the user (*e.g.*, metabolism, interfering blood constituents, lifestyle changes) can cause variability in the calibration of the sensor. Accordingly, a continuously updating calibration algorithm is disclosed that includes reforming the calibration set, and thus recalculating the conversion function, over time according to a set of inclusion criteria.

[0449] At block **101**, the reference data receiving module, also referred to as the reference input module, receives one or more new reference analyte values (*e.g.*, data point) from the reference analyte source. In some embodiments, the reference analyte value can be pre-screened according to criteria such as described in more detail with reference to Figure 21, block **62**. In some embodiments, the reference analyte values can be evaluated for clinical acceptability such as described in more detail with reference to Figure 23.

[0450] At block **102**, the data matching module, also referred to as the processor module, forms one or more updated matched data pairs by matching new reference data to substantially time corresponding sensor data, such as described in more detail with reference to Figure 21, block **63**.

[0451] At block **103**, a calibration evaluation module evaluates the new matched pair(s) inclusion into the calibration set. In some embodiments, the receiver simply adds the

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updated matched data pair into the calibration set, displaces the oldest and/or least concordant matched pair from the calibration set, and proceeds to recalculate the conversion function accordingly (block **105**).

[0452] In some embodiments, the calibration evaluation includes evaluating only the new matched data pair. In some embodiments, the calibration evaluation includes evaluating all of the matched data pairs in the existing calibration set and including the new matched data pair; in such embodiments not only is the new matched data pair evaluated for inclusion (or exclusion), but additionally each of the data pairs in the calibration set are individually evaluated for inclusion (or exclusion). In some alternative embodiments, the calibration evaluation includes evaluating all possible combinations of matched data pairs from the existing calibration set and including the new matched data pair to determine which combination best meets the inclusion criteria. In some additional alternative embodiments, the calibration evaluation includes a combination of at least two of the above-described embodiments.

[0453] Inclusion criteria comprise one or more criteria that define a set of matched data pairs that form a substantially optimal calibration set. One inclusion criterion comprises ensuring the time stamp of the matched data pairs (that make up the calibration set) span at least a set time period (*e.g.*, three hours). Another inclusion criterion comprises ensuring that the time stamps of the matched data pairs are not more than a set age (*e.g.*, one week old). Another inclusion criterion ensures that the matched pairs of the calibration set have a substantially distributed amount of high and low raw sensor data, estimated sensor analyte values, and/or reference analyte values. Another criterion comprises ensuring all raw sensor data, estimated sensor analyte values, and/or reference analyte values are within a predetermined range (*e.g.*, 40 to 400 mg/dL for glucose values). Another criterion comprises evaluating the rate of change of the analyte concentration (*e.g.*, from sensor data) during the time stamp of the matched pair(s). For example, sensor and reference data obtained during the time when the analyte concentration is undergoing a slow rate of change can be less susceptible inaccuracies caused by time lag and other physiological and non-physiological effects. Another criterion comprises evaluating the congruence of respective sensor and reference data in each matched data pair; the matched pairs with the most congruence can be

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chosen. Another criterion comprises evaluating physiological changes (*e.g.*, low oxygen due to a user's posture that can effect the function of a subcutaneously implantable analyte sensor, or other effects such as described with reference to Figure 21) to ascertain a likelihood of error in the sensor value. Valuation of calibration set criteria can comprise evaluating one, some, or all of the above described inclusion criteria. It is contemplated that additional embodiments can comprise additional inclusion criteria not explicitly described herein.

[0454] At block **104**, the evaluation of the calibration set determines whether to maintain the previously established calibration set, or if the calibration set can be updated (*e.g.*, modified) with the new matched data pair. In some embodiments, the oldest matched data pair is simply displaced when a new matched data pair is included. A new calibration set can include not only the determination to include the new matched data pair, but in some embodiments, can also determine which of the previously matched data pairs can be displaced from the calibration set.

[0455] At block **105**, the conversion function module recreates the conversion function using the modified calibration set. The calculation of the conversion function is described in more detail with reference to Figure 21.

[0456] At block **106**, the sensor data transformation module converts sensor data to calibrated data using the updated conversion function. Conversion of raw sensor data into estimated analyte values is described in more detail with reference to Figure 21.

[0457] Reference is now made to Figure 25, which is a flow chart that illustrates the process of evaluating the quality of the calibration in one embodiment. The calibration quality can be evaluated by determining the statistical association of data that forms the calibration set, which determines the confidence associated with the conversion function used in calibration and conversion of raw sensor data into estimated analyte values.

[0458] In one embodiment calibration quality can be evaluated after initial or updated calculation of the conversion function such as described elsewhere herein. However, calibration quality can be performed at any time during the data processing.

[0459] At block **111**, a sensor data receiving module, also referred to as the sensor data module, receives the sensor data from the sensor such as described in more detail with reference to Figure 21.

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[0460] At block **112**, a reference data receiving module, also referred to as the reference input module, receives reference data from a reference analyte source, such as a substantially continuous analyte monitor, and as described in more detail with reference to Figure 21.

[0461] At block **113**, the data matching module, also referred to as the processor module, matches received reference data with substantially time corresponding sensor data to provide one or more matched data pairs, such as described in more detail with reference to Figure 21.

[0462] At block **114**, the calibration set module, also referred to as the processor module, forms a calibration set from one or more matched data pairs such as described in more detail with reference to Figs. 21 and 24.

[0463] At block **115**, the conversion function module calculates a conversion function using the calibration set, such as described in more detail with reference to Figs. 21 and 16.

[0464] At block **116**, the sensor data transformation module continuously (or intermittently) converts received sensor data into estimated analyte values, also referred to as calibrated data, such as described in more detail with reference to Figs. 21 and 24.

[0465] At block **117**, a quality evaluation module evaluates the quality of the calibration. In one embodiment, the quality of the calibration is based on the association of the calibration set data using statistical analysis. Statistical analysis can comprise any known cost function such as linear regression, non-linear mapping/regression, rank (*e.g.*, non-parametric) correlation, least mean square fit, mean absolute deviation (MAD), mean absolute relative difference, and the like. The result of the statistical analysis provides a measure of the association of data used in calibrating the system. A threshold of data association can be set to determine if sufficient quality is exhibited in a calibration set.

[0466] In another embodiment, the quality of the calibration is determined by evaluating the calibration set for clinical acceptability, such as described with reference to blocks **82** and **83** (*e.g.*, Clarke Error Grid, Consensus Grid, or clinical acceptability test). As an example, the matched data pairs that form the calibration set can be plotted on a Clarke

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Error Grid, such that when all matched data pairs fall within the A and B regions of the Clarke Error Grid, then the calibration is determined to be clinically acceptable.

[0467] In yet another alternative embodiment, the quality of the calibration is determined based initially on the association of the calibration set data using statistical analysis, and then by evaluating the calibration set for clinical acceptability. If the calibration set fails the statistical and/or the clinical test, the processing returns to block **115** to recalculate the conversion function with a new (*e.g.*, optimized) set of matched data pairs. In this embodiment, the processing loop (block **115** to block **117**) iterates until the quality evaluation module 1) determines clinical acceptability, 2) determines sufficient statistical data association, 3) determines both clinical acceptability and sufficient statistical data association, or 4) surpasses a threshold of iterations; after which the processing continues to block **118**.

[0468] Figs. 26A and 26B illustrate one exemplary embodiment wherein the accuracy of the conversion function is determined by evaluating the correlation coefficient from linear regression of the calibration set that formed the conversion function. In this exemplary embodiment, a threshold (*e.g.*, 0.79) is set for the R-value obtained from the correlation coefficient.

[0469] Figure 26A and 26B are graphs that illustrate an evaluation of the quality of calibration based on data association in one exemplary embodiment using a correlation coefficient. Particularly, Figs. 26A and 26B pictorially illustrate the results of the linear least squares regression performed on a first and a second calibration set (Figs. 26A and 26B, respectively). The x-axis represents reference analyte data; the y-axis represents sensor data. The graph pictorially illustrates regression that determines the conversion function.

[0470] The regression line (and thus the conversion function) formed by the regression of the first calibration set of Figure 26A is the same as the regression line (and thus the conversion function) formed by the regression of the second calibration set of Figure 26B. However, the correlation of the data in the calibration set to the regression line in Figure 26A is significantly different than the correlation of the data in the calibration set to the regression line in Figure 26A. In other words, there is a noticeably greater deviation of

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the data from the regression line in Figure 26B than the deviation of the data from the regression line in Figure 26A.

[0471] In order to quantify this difference in correlation, an R-value can be used to summarize the residuals (*e.g.*, root mean square deviations) of the data when fitted to a straight line via least squares method, in this exemplary embodiment. R-value can be calculated according to the following equation:

$$R = \frac{\sum_i (x_i - \overline{x})(y_i - \overline{y})}{\sqrt{\sum_i (x_i - x)^2} \sqrt{\sum_i y_i - y)^2}}$$

In the above equation: i is an index (1 to n), x is a reference analyte value, y is a sensor analyte value, $\overline{x}$ is an average of $1/n$ reference analyte values, and $\overline{y}$ is an average of $1/n$ sensor analyte values.

[0472] In the exemplary calibration set shown in Figure 26A, the calculated R-value is about 0.99, which can also be expressed as the correlation coefficient of regression. Accordingly, the calibration exhibits sufficient data association (and thus insufficient quality) because it falls above the 0.79 threshold set in this exemplary embodiment.

[0473] In the exemplary calibration set shown in Figure 26B, the calculated R-value is about 0.77, which can also be expressed as the correlation coefficient of regression. Accordingly, the calibration exhibits insufficient data association (and thus insufficient quality) because it falls below the 0.79 threshold set in this exemplary embodiment.

[0474] Reference is again made to Figure 25, at block **118**, the interface control module, also referred to as the fail-safe module, controls the user interface based upon the quality of the calibration. If the calibration is exhibits sufficient quality, then the then the first reference analyte value is discarded, and the repeated reference analyte value is accepted the process continues, and the user interface can function as normal; that is providing output for the user such as described in more detail with reference to Figure 21. If however the calibration is not deemed sufficient in quality, then fail-safe module begins the initial stages of fail-safe mode, which are described in more detail in U.S. Publication No. US-2005-0027463-A1.

Example I

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[0475] As described above, benchtop testing of a sensor prior to insertion can be used to calibrate sensor data after the sensor is inserted. Figure 27 shows *in-vivo* sensitivity (as calculated using retrospective calibration) vs. in-vitro sensitivity (collected prior to implant), of 16 short term sensors implanted in humans. Least-squares regression was used to define the predictive relationship between *in-vitro* and *in-vivo* sensitivities (*e.g.*, $m_{in\ vivo} = 2.99*m_{in\ vitro} + 26.62$), as shown in Figure 27. This relationship was applied to a sensor used in the above-described experiment. The comparison of blood glucose values with the *in-vitro* calibrated sensor is shown in Figs. 28 and 29. Predicted *in-vivo* sensitivity was assumed for calibration throughout the first day. The mean absolute relative difference found across 43 matched pairs over 3 days was 20.17%. *In-vivo* sensitivity is usually greater than *in-vitro* sensitivity (typically 2-3x higher). This may be due to enhanced transport of glucose when the membranes interact with molecules in the tissues, such as proteins or lipid in the interstitial fluid.

Example II

[0476] In this example, one substantially continuous glucose sensor was used to calibrate another substantially continuous glucose sensor, where both sensors were used in the same host. The data specifically illustrates the use of a short-term (*e.g.,* transcutaneous) sensor to calibrate a long term (*e.g.*, implantable) sensor, but the methods described are applicable to other combinations, including (1) use of a short-term sensor to calibrate another short term sensor; (2) use of a long-term sensor to calibrate another long-term sensor; (3) use of a long term sensor to calibrate a short term sensor.

[0477] As discussed herein, calibration of an enzyme-electrode based glucose sensor consists of solving the line

$$y = mx + b$$

for m and b, where y denotes the sensor signal (in units of A/D counts), x the estimated glucose concentration (mg/dl), m the sensor sensitivity to glucose (counts/mg/dl), and b the baseline signal unrelated to glucose (counts). If two glucose sensors are used concurrently in the same host, and one sensor is calibrated, the time-corresponding glucose values (x) from the calibrated sensor can be matched to the signal values (y) of the un-calibrated sensor.

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These matched pairs are then used to draw the calibration line for the second sensor using a regression relationship (*e.g.* ordinary least-squares).

[0478] In this example, a short term substantially continuous sensor was employed in a host in which a long term sensor was already implanted. The data from the substantially continuous short term sensor was used to run a prospective calibration on the substantially continuous long term sensor. Referring to Figure 30, a plurality of data points (*e.g.*, about 20) from the short term sensor (referred to in Figure 30 as "STS" and depicted with a diamond symbol) were used as reference data to calibrate the sensor data from the long term sensor (referred to in Figure 30 as "LTS" and depicted with a dot symbol). The top graph in Figure 30 shows sensor data (counts (left y-axis)) from an un-calibrated long term sensor and sensor data (glucose measurements (right y-axis)) from a calibrated short term sensor. The top graph in Figure 30 shows roughly 6 days of un-calibrated long term sensor data for a particular host. On day five, a calibrated short term sensor was employed on the same host. The lower graph in Figure 30 shows a close-up of the overlay of the sensor data from the long term sensor and, beginning on day five, the sensor data from the short term sensor.

[0479] After matching time-corresponding sensor values from the short term sensor data and the long term sensor data, a regression analysis yielded a result for (m, b) of (134.24, 11922.53), with 5 min time-lag of the long term sensor relative to short term sensor. When this calibration was prospectively applied to the long term sensor on day 6, the (calibrated) long term sensor glucose values were compared to reference glucose measurements (*e.g.* meter readings) to demonstrate calibration accuracy, as shown in Figure 23. In Figure 31, the long term sensor data is referred to as "LTS" and depicted as small dots, and the reference glucose measurements (self-monitoring blood glucose) are referred to as "SMBG" and depicted with large ovals. The results show the accuracy of the short term sensor calibration. Further improvement in accuracy would likely result if more points were used.

[0480] Comparison of the proposed calibration scheme (long term sensor calibration based on short term sensor) vs. a conventional scheme, for example, a 6-pt

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moving window regression, using 2/day self-monitoring blood glucose (SMBG) is shown in the Table 1.

Table 1. Calibration long term sensor calibration schemes: retrospective, with SMBG, and with short term sensor.

Calibration Scheme	Retrospective	With SMBG (conventional)	With STS
m	127.12	197.38	134.24
b	12196.48	13508.15	11922.53

[0481] The results suggest that calibration of a long term sensor with a short term sensor can be more accurate than with 2/day SMBG. The *m* and *b* found with short term sensor based calibration are closer to the values found with retrospective calibration ('gold standard') than with 2/day SMBG.

Example III

[0482] Referring now to Figure 32, in this example, sensor data from a short term analyte sensor was used to calibrate a subsequently employed short term sensor. Short term data was collected over a two and a half-day time period from a substantially continuous short term sensor employed on a human host. Finger stick glucose measurements (referred to in Figure 32 as "Calpts" and depicted with large round dots) were used to calibrate Sensor No. 1. Glucose values (read off of the left y-axis) were derived from the Calibrated Sensor No. 1 sensor data. The Calibrated Sensor No. 1 data is referred to in Figure 32 as "Calglucose 1" and depicted as small dots.

[0483] On Day 3, a second substantially continuous short term sensor (referred to in Figure 32 as "Sensor2") was employed on the same host as Sensor No. 1, and sensor data was collected about every 5 minutes for one day (*e.g.*, 288 data points). Digital count data (read off of the right y-axis) from the Sensor No. 2 is depicted in Figure 32 as diamonds.

[0484] Using the glucose values resulting from the data of Sensor No. 1, the sensor data from Sensor No. 2 was calibrated using a retrospective calibration analysis, *i.e.*, least squares regression correlation coefficient, and evaluated using a mean absolute relative difference (MARD). The results of the regression are illustrated in Figure 33, which shows 288 digital count data points from Sensor No. 2 matched to glucose values from Sensor No. 1

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at corresponding times. The regression data was then prospectively applied to the data collected by Sensor No. 2 on Day 4. The Calibrated Sensor 2 data is depicted in Figure 32 as medium-sized round dots and referred to in Figure 32 as "Calglucose2." After one day, a finger stick glucose measurement was taken at about 12:00:00. The sensor data from Figure 32 closely corresponded to the glucose measurement from the finger stick glucose measurement.

[0485] Methods and devices that are suitable for use in conjunction with aspects of the preferred embodiments are disclosed in U.S. Patent No. 4,994,167; U.S. Patent No. 4,757,022; U.S. Patent No. 6,001,067; U.S. Patent No. 6,741,877; U.S. Patent No. 6,702,857; U.S. Patent No. 6,558,321; U.S. Patent No. 6,931,327; and U.S. Patent No. 6,862,465.

[0486] Methods and devices that are suitable for use in conjunction with aspects of the preferred embodiments are disclosed in U.S. Publication No. US-2005-0176136-A1; U.S. Publication No. US-2005-0251083-A1; U.S. Publication No. US-2005-0143635-A1; U.S. Publication No. US-2005-0181012-A1; U.S. Publication No. US-2005-0177036-A1; U.S. Publication No. US-2005-0124873-A1; U.S. Publication No. US-2005-0051440-A1; U.S. Publication No. US-2005-0115832-A1; U.S. Publication No. US-2005-0245799-A1; U.S. Publication No. US-2005-0245795-A1; U.S. Publication No. US-2005-0242479-A1; U.S. Publication No. US-2005-0182451-A1; U.S. Publication No. US-2005-0056552-A1; U.S. Publication No. US-2005-0192557-A1; U.S. Publication No. US-2005-0154271-A1; U.S. Publication No. US-2004-0199059-A1; U.S. Publication No. US-2005-0054909-A1; U.S. Publication No. US-2005-0112169-A1; U.S. Publication No. US-2005-0051427-A1; U.S. Publication No. US-2003-0032874-A1; U.S. Publication No. US-2005-0103625-A1; U.S. Publication No. US-2005-0203360-A1; U.S. Publication No. US-2005-0090607-A1; U.S. Publication No. US-2005-0187720-A1; U.S. Publication No. US-2005-0161346-A1; U.S. Publication No. US-2006-0015020-A1; U.S. Publication No. US-2005-0043598-A1; U.S. Publication No. US-2003-0217966-A1; U.S. Publication No. US-2005-0033132-A1; U.S. Publication No. US-2005-0031689-A1; U.S. Publication No. US-2004-0045879-A1; U.S. Publication No. US-2004-0186362-A1; U.S. Publication No. US-2005-0027463-A1; U.S. Publication No. US-2005-0027181-A1; U.S. Publication No. US-2005-0027180-A1; U.S. Publication No. US-2006-0020187-A1; U.S. Publication No. US-2006-0036142-A1;

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U.S. Publication No. US-2006-0020192-A1; U.S. Publication No. US-2006-0036143-A1; U.S. Publication No. US-2006-0036140-A1; U.S. Publication No. US-2006-0019327-A1; U.S. Publication No. US-2006-0020186-A1; U.S. Publication No. US-2006-0020189-A1; U.S. Publication No. US-2006-0036139-A1; U.S. Publication No. US-2006-0020191-A1; U.S. Publication No. US-2006-0020188-A1; U.S. Publication No. US-2006-0036141-A1; U.S. Publication No. US-2006-0020190-A1; U.S. Publication No. US-2006-0036145-A1; U.S. Publication No. US-2006-0036144-A1; and U.S. Publication No. US-2006-0016700-A1.

[0487] Methods and devices that are suitable for use in conjunction with aspects of the preferred embodiments are disclosed in U.S. Application No. 09/447,227 filed November 22, 1999 and entitled "DEVICE AND METHOD FOR DETERMINING ANALYTE LEVELS"; U.S. Application No. 11/280,672 filed November 16, 2005, and entitled "TECHNIQUES TO IMPROVE POLYURETHANE MEMBRANES FOR IMPLANTABLE GLUCOSE SENSORS"; U.S. Application No. 11/280,102 filed November 16, 2005, and entitled "TECHNIQUES TO IMPROVE POLYURETHANE MEMBRANES FOR IMPLANTABLE GLUCOSE SENSORS"; U.S. Application No. 11/201,445 filed August 10, 2005 and entitled "SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA"; U.S. Application No. 11/335,879 filed January 18, 2006 and entitled "CELLULOSIC-BASED INTERFERENCE DOMAIN FOR AN ANALYTE SENSOR"; U.S. Application No. 11/334,876 filed January 18, 2006 and entitled "TRANSCUTANEOUS ANALYTE SENSOR"; U.S. Application No. 11/333,837 filed January 17, 2006 and entitled "LOW OXYGEN *IN VIVO* ANALYTE SENSOR".

[0488] All references cited herein, including but not limited to published and unpublished applications, patents, and literature references are incorporated herein by reference in their entirety and are hereby made a part of this specification. To the extent publications and patents or patent applications incorporated by reference contradict the disclosure contained in the specification, the specification is intended to supersede and/or take precedence over any such contradictory material.

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[0489] The term "comprising" as used herein is synonymous with "including," "containing," or "characterized by," and is inclusive or open-ended and does not exclude additional, unrecited elements or method steps.

[0490] All numbers expressing quantities of ingredients, reaction conditions, and so forth used in the specification are to be understood as being modified in all instances by the term "about." Accordingly, unless indicated to the contrary, the numerical parameters set forth herein are approximations that may vary depending upon the desired properties sought to be obtained. At the very least, and not as an attempt to limit the application of the doctrine of equivalents to the scope of any claims in any application claiming priority to the present application, each numerical parameter should be construed in light of the number of significant digits and ordinary rounding approaches.

[0491] The above description discloses several methods and materials of the present invention. This invention is susceptible to modifications in the methods and materials, as well as alterations in the fabrication methods and equipment. Such modifications will become apparent to those skilled in the art from a consideration of this disclosure or practice of the invention disclosed herein. Consequently, it is not intended that this invention be limited to the specific embodiments disclosed herein, but that it cover all modifications and alternatives coming within the true scope and spirit of the invention.

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This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 68851

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

DexCom, Inc.

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	8/28/13
Name	Kaare Larson		
Title	Assistant General Counsel, Intellectual Property		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Jack Pryor
Filer:	Rose M. Thiessen
Attorney Docket Number:	DEXCOM.053C22

Filed as Large Entity

Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
REQUEST FOR PRIORITIZED EXAMINATION	1817	1	4000	4000
Pages:				
UTILITY APPL SIZE FEE PER 50 SHEETS >100	1081	1	400	400
Claims:				
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140

Petition:	
Patent-Appeals-and-Interference:	
Post-Allowance-and-Post-Issuance:	
Extension-of-Time:	
Miscellaneous:	
Total in USD ($)	**6260**

Electronic Acknowledgement Receipt

EFS ID:	37817201
Application Number:	16690977
International Application Number:	
Confirmation Number:	3197
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Jack Pryor
Customer Number:	68851
Filer:	Rose M. Thiessen/Melissa Ramirez
Filer Authorized By:	Rose M. Thiessen
Attorney Docket Number:	DEXCOM.053C22
Receipt Date:	21-NOV-2019
Filing Date:	
Time Stamp:	15:56:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$6260
RAM confirmation Number	E2019AKF57487024
Deposit Account	111410
Authorized User	Melissa Ramirez

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	TrackOne Request	053C22_TRK1_2.pdf	126747 b8dda4858010dc86fecac2933339e1a6b577d8cb	no	2
Warnings:					
Information:					
2	Application Data Sheet	053C22_ADS.pdf	1823974 39ad81870b199cea6e89b0feca917a0a2078512f	no	10
Warnings:					
Information:					
3	Oath or Declaration filed	053C22_DECS.pdf	808566 e18b239906f5b6f95bd968ea07c2f51158fe607a	no	6
Warnings:					
Information:					
4	Drawings-only black and white line drawings	053C22_DRAW.pdf	921275 dbac409c8ebee3f0cac4caebe195e41e8027cdc1	no	48
Warnings:					
Information:					
5	Miscellaneous Incoming Letter	053C22_HAKIM.pdf	102218 191cf5ad493f7a2e346f27c1e0c8f20bebcf1c3f	no	1
Warnings:					
Information:					
6		053C22_SPEC_140-142.pdf	799557 b71db1a4282ea6084fbcbade1b60c7883836049b	yes	143

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**

	Abstract		143		143
	Claims		140		142
	Specification		1		139
Warnings:					
Information:					
7	Power of Attorney	22POA.pdf	577815 862eec42c12e0f5aba3baa62bc8194bd1ff96f81	no	2
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	41602 6e78c298998ddb52db8c8f2298abd45b0f1accbe	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	5201754		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 16/690,977

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	300
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	660
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	760
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*			OR	x 100 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*				x 460 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						400
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	2120

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/690,977	11/21/2019	3791	2120	DEXCOM.053C22	20	2

CONFIRMATION NO. 3197

FILING RECEIPT

68851
KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

Date Mailed: 12/11/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Jack Pryor, Ladera Ranch, CA;
Apurv Ullas Kamath, San Diego, CA;
Paul V. Goode JR., Round Rock, TX;
James H. Brauker, Addison, MI;

Applicant(s)

DexCom, Inc., San Diego, CA;

Assignment For Published Patent Application

DexCom, Inc., San Diego, CA

Power of Attorney: The patent practitioners associated with Customer Number 68851

Domestic Priority data as claimed by applicant

This application is a CON of 16/457,628 06/28/2019
which is a CON of 15/787,595 10/18/2017
which is a CON of 15/065,623 03/09/2016 PAT 9918668
which is a CON of 13/607,162 09/07/2012 PAT 9314196
which is a CON of 12/683,755 01/07/2010 PAT 8611978
which is a CON of 11/373,628 03/09/2006 PAT 7920906
which claims benefit of 60/660,743 03/10/2005

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.

Abbott Ex. 1003 - 219/875

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 12/09/2019
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/690,977**
Projected Publication Date: 03/19/2020
Non-Publication Request: No
Early Publication Request: No
Title

SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

Preliminary Class

600

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign

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patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/690,977	11/21/2019	Jack Pryor	DEXCOM.053C22	3197

68851 7590 12/13/2019

KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER	
ART UNIT	PAPER NUMBER
3791	

NOTIFICATION DATE	DELIVERY MODE
12/13/2019	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com
jayna.cartee@knobbe.com

Decision Granting Request for Prioritized Examination (Track I)	**Application No.** 16/690,977	**Applicant(s)** Pryor et al.	
	Examiner BRIAN W BROWN	**Art Unit** OPET	**AIA (FITF) Status** No

1. THE REQUEST FILED 21 November 2019 IS **GRANTED** .

The above-identified application has met the requirements for prioritized examination

A. ☑ for an original nonprovisional application (Track I).
B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination**. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

A. filing a **petition for extension of time** to extend the time period for filing a reply;

B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims** , or a multiple dependent claim;

C. filing a **request for continued examination** ;

D. filing a notice of appeal;

E. filing a request for suspension of action;

F. mailing of a notice of allowance;

G. mailing of a final Office action;

H. completion of examination as defined in 37 CFR 41.102; or

I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to BRIAN BROWN at (571)272-5338. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.

/BRIAN W BROWN/ Petitions Examiner, OPET	

Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US-RE31916	06-18-1985	OSWIN; Harry G. et al.	
	002	US-RE32361	02-24-1987	DUGGAN; Stephen R.	
	003	US-RE36991	12-19-2000	YAMAMOTO; Tomohiro et al.	
	004	US-RE43039	12-20-2011	BRISTER; Mark et al.	
	005	US-1498738	06-24-1924	LAHOUSSE; Joseph Edouard Gustave. et al.	
	006	US-1564641	12-08-1925	ROBERT ST; James T. et al.	
	007	US-1726766	09-03-1929	RECTOR; Thomas M. et al.	
	008	US-2057029	10-13-1936	JOHNSTONE; Robert Mcc.	
	009	US-2402306	06-18-1946	HENRY; Turkel et al.	
	010	US-2497894	02-21-1950	CLARE; Luke et al.	
	011	US-2719797	10-04-1955	ROSENBLATT; Edgar F. et al.	
	012	US-2882696	04-21-1959	HERRMANN; Bernard L. et al.	
	013	US-2910256	10-27-1959	RICHARD; Leidolf et al.	
	014	US-3022639	02-27-1962	BROWN; Carl E. et al.	
	015	US-3210578	10-05-1965	SHERER; Glen H.	
	016	US-3218819	11-23-1965	CROTSER; Frank P. et al.	
	017	US-3219533	11-23-1965	MULLINS; John D.	
	018	US-3381371	05-07-1968	RUSSELL; Earl D. et al.	
	019	US-3506032	04-14-1970	EVELEIGH; John William et al.	

Examiner Signature		Date Considered	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	020	US-3539455	11-10-1970	CLARK Jr.; Leland C. et al.	
	021	US-3556950	01-19-1971	DAHMS; Harald et al.	
	022	US-3562352	02-09-1971	NYILAS; Emery.	
	023	US-3581062	05-25-1971	ASTON; Keith.	
	024	US-3607329	09-21-1971	MANJIKIAN; Serop.	
	025	US-3610226	10-05-1971	ALBISSER; Anthony M. et al.	
	026	US-3652475	03-28-1972	WADA; Tadashi et al.	
	027	US-3728678	04-17-1973	TONG; S.Y.	
	028	US-3775182	11-27-1973	PATTON; Jimmie Donald. et al.	
	029	US-3780727	12-25-1973	KING; Eugene.	
	030	US-3791871	02-12-1974	ROWLEY; Leroy S.	
	031	US-3826244	07-30-1974	SALCMAN; Michael. et al.	
	032	US-3837339	09-24-1974	AISENBERG; Sol. et al.	
	033	US-3838033	09-24-1974	MINDT; Wolfgang. et al.	
	034	US-3838682	10-01-1974	CLARK; Justin S. et al.	
	035	US-3872455	03-18-1975	FULLER; Charles H. et al.	
	036	US-3874850	04-01-1975	SORENSEN; Soren Kai et al.	
	037	US-3882011	05-06-1975	HINES; Theodore G. et al.	
	038	US-3898984	08-12-1975	MANDEL; Louis et al.	
	039	US-3910256	10-07-1975	CLARK; Justin S. et al.	

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	040	US-3926760	12-16-1975	ALLEN; James S. et al.	
	041	US-3929971	12-30-1975	ROY; Della M. et al.	
	042	US-3930462	01-06-1976	DAY; Edward G. et al.	
	043	US-3933593	01-20-1976	STERNBERG; James C. et al.	
	044	US-3943918	03-16-1976	LEWIS; Ronald A. et al.	
	045	US-3949388	04-06-1976	FULLER; Charles H. et al.	
	046	US-3957613	05-18-1976	MACUR; Robert A.	
	047	US-3957651	05-18-1976	KESTING; Robert E. et al.	
	048	US-3964974	06-22-1976	BANAUCH; Dieter et al.	
	049	US-3966580	06-29-1976	JANATA; Jiri A. et al.	
	050	US-3978684	09-07-1976	TAYLOR; David H. et al.	
	051	US-3979274	09-07-1976	NEWMAN; David P.	
	052	US-3982530	09-28-1976	STORCH; Egon et al.	
	053	US-4003621	01-18-1977	LAMP; Richard W. et al.	
	054	US-4008717	02-22-1977	KOWARSKI; Allen A. et al.	
	055	US-4016866	04-12-1977	LAWTON; Richard W. et al.	
	056	US-4024312	05-17-1977	KORPMAN; Ralf et al.	
	057	US-4036749	07-19-1977	ANDERSON; Donald R.	
	058	US-4037563	07-26-1977	PFLUEGER; John M. et al.	
	059	US-4040908	08-09-1977	CLARK Jr.; Leland C. et al.	
	060	US-4052754	10-11-1977	HOMSY; Charles A. et al.	

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Art Unit	3791
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Attorney Docket Number	DEXCOM.053C22

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	061	US-4055175	10-25-1977	CLEMENS; Anton Hubert et al.	
	062	US-4067322	01-10-1978	JOHNSON; Joseph H. et al.	
	063	US-4068660	01-17-1978	BECK; Richard William et al.	
	064	US-4073713	02-14-1978	NEWMAN; David P.	
	065	US-4076656	02-28-1978	WHITE; Leroy A. et al.	
	066	US-4101395	07-18-1978	MOTANI; Kensuke et al.	
	067	US-4109505	08-29-1978	CLARK; Justin S. et al.	
	068	US-4110997	09-05-1978	KLOTZ; Michael C. et al.	
	069	US-4116920	09-26-1978	HONMA; Hiroshi et al.	
	070	US-4119406	10-10-1978	CLEMENS; Anton Hubert et al.	
	071	US-4129128	12-12-1978	MCFARLANE; Richard H.	
	072	US-4151845	05-01-1979	CLEMENS; Anton H.	
	073	US-4172770	10-30-1979	SEMERSKY; Frank E. et al.	
	074	US-4176659	12-04-1979	ROLFE; Peter	
	075	US-4187390	02-05-1980	GORE; Robert W.	
	076	US-4197840	04-15-1980	BECK; Alexander et al.	
	077	US-4197852	04-15-1980	SCHINDLER; Johannes G. et al.	
	078	US-4206755	06-10-1980	KLEIN; Jean-Claude	
	079	US-4215703	08-05-1980	WILLSON; James K V.	
	080	US-4225410	09-30-1980	PACE; Salvatore J. et al.	

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Attorney Docket Number	DEXCOM.053C22

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	081	US-4230118	10-28-1980	HOLMAN; Rury R. et al.	
	082	US-4240438	12-23-1980	SHULTS; Mark C. et al.	
	083	US-4240889	12-23-1980	YODA; Kentaro. et al	
	084	US-4245634	01-20-1981	ALBISSER; Anthony M. et al.	
	085	US-4248246	02-03-1981	IKEDA; Tatsuhiko	
	086	US-4253469	03-03-1981	ASLAN; Edward E. et al.	
	087	US-4255500	03-10-1981	HOOKE; John W. et al.	
	088	US-4259540	03-31-1981	SABIA; Raffaele A. et al.	
	089	US-4260725	04-07-1981	KEOGH; Philip L. et al.	
	090	US-4260726	04-07-1981	DEUBZER; Bernward et al.	
	091	US-4265249	05-05-1981	SCHINDLER; Johannes G. et al.	
	092	US-4286039	08-25-1981	LANDA; Benzion et al.	
	093	US-4319578	03-16-1982	ENGER; Carl C. et al.	
	094	US-4324256	04-13-1982	VESTERAGER; Peter K R. et al.	
	095	US-4324257	04-13-1982	ALBARDA; Scato et al.	
	096	US-4327725	05-04-1982	CORTESE; Richard et al.	
	097	US-4344438	08-17-1982	SCHULTZ; Jerome S.	
	098	US-4349728	09-14-1982	PHILLIPS; Robert B. et al.	
	099	US-4353368	10-12-1982	SLOVAK; Petr et al.	
	100	US-4353888	10-12-1982	SEFTON; Michael V. et al.	

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	101	US-4366040	12-28-1982	MARSONER; Hermann et al.	
	102	US-4369785	01-25-1983	REHKOPF; Paul G. et al.	
	103	US-4374013	02-15-1983	ENFORS; Sven-Olof	
	104	US-4378016	03-29-1983	LOEB; Marvin P. et al.	
	105	US-4388166	06-14-1983	SUZUKI; Shuichi et al.	
	106	US-4402694	09-06-1983	ASH; Stephen R. et al.	
	107	US-4403847	09-13-1983	CHRESTENSEN; Gene L.	
	108	US-4403984	09-13-1983	ASH; Stephen R. et al.	
	109	US-4415666	11-15-1983	D'ORAZIO; Paul A. et al.	
	110	US-4418148	11-29-1983	OBERHARDT; Bruce J.	
	111	US-4419535	12-06-1983	O'HARA; Robert J.	
	112	US-4425920	01-17-1984	BOURLAND; Joe D. et al.	
	113	US-4431004	02-14-1984	BESSMAN; Samuel P. et al.	
	114	US-4431507	02-14-1984	NANKAI; Shiro et al.	
	115	US-4432366	02-21-1984	MARGULES; Gary S.	
	116	US-4436094	03-13-1984	CERAMI; Anthony	
	117	US-4442841	04-17-1984	UEHARA; Masaru et al.	
	118	US-4453537	06-12-1984	SPITZER; Daniel E.	
	119	US-4454295	06-12-1984	WITTMANN; Joseph W. et al.	
	120	US-4457339	07-03-1984	JUAN; Juan J S. et al.	
	121	US-4469110	09-04-1984	SLAMA; Gerard J.	

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	122	US-4477314	10-16-1984	RICHTER; Gerhard et al.	
	123	US-4478222	10-23-1984	KONING; Gerrit et al.	
	124	US-4478976	10-23-1984	GOERTZ; Hans-Helmut et al.	
	125	US-4484987	11-27-1984	GOUGH; David A.	
	126	US-4486290	12-04-1984	CAHALAN; Patrick T. et al.	
	127	US-4492575	01-08-1985	MABILLE; Pierre	
	128	US-4493714	01-15-1985	UEDA; Fumio et al.	
	129	US-4494950	01-22-1985	FISCHELL; Robert E.	
	130	US-4506680	03-26-1985	STOKES; Kenneth B.	
	131	US-4509531	04-09-1985	WARD; John W.	
	132	US-4519973	05-28-1985	CAHALAN; Patrick T. et al.	
	133	US-4526569	07-02-1985	BERNARDI; Luigi	
	134	US-4527240	07-02-1985	KVITASH; Vadim I.	
	135	US-4527999	07-09-1985	LEE; Cheng H.	
	136	US-4534355	08-13-1985	POTTER; William D.	
	137	US-4534825	08-13-1985	KONING; Gerrit et al.	
	138	US-4535786	08-20-1985	KATER; John A R.	
	139	US-4538616	09-03-1985	ROGOFF; Robert	
	140	US-4545382	10-08-1985	HIGGINS; Irving J. et al.	
	141	US-4554927	11-26-1985	FUSSELL; Theodore J.	
	142	US-4561963	12-31-1985	OWEN; Jeffrey D. et al.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	143	US-4565665	01-21-1986	FOGT; Eric J.	
	144	US-4565666	01-21-1986	CAHALAN; Patrick T. et al.	
	145	US-4568444	02-04-1986	NAKAMURA; Michihiro et al.	
	146	US-4571292	02-18-1986	LIU; Chung-Chiun et al.	
	147	US-4573968	03-04-1986	PARKER; Kenneth B.	
	148	US-4577642	03-25-1986	STOKES; Kenneth B.	
	149	US-4578215	03-25-1986	BRADLEY; Robert F.	
	150	US-4579120	04-01-1986	MACGREGOR; David C.	
	151	US-4583976	04-22-1986	FERGUSON; Keith T.	
	152	US-4592824	06-03-1986	SMITH; Rosemary L. et al.	
	153	US-4600495	07-15-1986	FOGT; Eric J.	
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	155	US-4603152	07-29-1986	LAURIN; Dean et al.	
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	161	US-4650547	03-17-1987	GOUGH; David A.	
	162	US-4655880	04-07-1987	LIU; Chung-Chiun	
	163	US-4663824	05-12-1987	KENMOCHI; Kazuei	

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	164	US-4671288	06-09-1987	GOUGH; David A.	
	165	US-4672970	06-16-1987	UCHIDA; Teruyoshi et al.	
	166	US-4675346	06-23-1987	LIN; Samuel Q S. et al.	
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	171	US-4685903	08-11-1987	CABLE; Vaughn P. et al.	
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	175	US-4694861	09-22-1987	GOODALE; David L. et al.	
	176	US-4703756	11-03-1987	GOUGH; David A. et al.	
	177	US-4703989	11-03-1987	PRICE; James R. et al.	
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	186	US-4739380	04-19-1988	LAUKS; Imants R. et al.	
	187	US-4747822	05-31-1988	PEABODY; Alan M.	
	188	US-4749985	06-07-1988	CORSBERG; Daniel R.	
	189	US-4750496	06-14-1988	REINHART; Richard et al.	
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	191	US-4753652	06-28-1988	LANGER; Robert et al.	
	192	US-4755168	07-05-1988	ROMANELLI; Pat et al.	
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	198	US-4776343	10-11-1988	HUBBARD; James R. et al.	
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	206	US-4789467	12-06-1988	LINDSAY; Edward R. et al.	
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Attorney Docket Number	DEXCOM.053C22

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	208	US-4793555	12-27-1988	LEE; Chi-Long et al.	
	209	US-4795435	01-03-1989	STEER; Peter L.	
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	211	US-4803243	02-07-1989	FUJIMOTO; Teruo et al.	
	212	US-4805624	02-21-1989	YAO; Shang J. et al.	
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	214	US-4807632	02-28-1989	LIESS; Hans D. et al.	
	215	US-4808089	02-28-1989	BUCHHOLTZ; Gerhard et al.	
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	217	US-4809704	03-07-1989	SOGAWA; Ichiro et al.	
	218	US-4810243	03-07-1989	HOWSON; David C.	
	219	US-4810470	03-07-1989	BURKHARDT; Alan E. et al.	
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	221	US-4815471	03-28-1989	STOBIE; John J.	
	222	US-4820281	04-11-1989	LAWLER Jr.; Casimir E.	
	223	US-4822336	04-18-1989	DITRAGLIA; John	
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	231	US-4838281	06-13-1989	ROGERS; Wayne W. et al.	
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	234	US-4852573	08-01-1989	KENNEDY; Philip R.	
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	244	US-4886070	12-12-1989	DEMAREST; Philip C.	
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	253	US-4907857	03-13-1990	GIULIANI; David et al.	
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	256	US-4919114	04-24-1990	MIYAZAKI; Atsushi	
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	262	US-4925444	05-15-1990	ORKIN I; Fredric et al.	
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	264	US-4927516	05-22-1990	YAMAGUCHI; Shuichiro et al.	
	265	US-4928694	05-29-1990	MAXWELL; Thomas P.	
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	270	US-4944299	07-31-1990	SILVIAN; Sergiu	
	271	US-4946439	08-07-1990	EGGERS; Philip N.	
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	276	US-4955861	09-11-1990	ENEGREN; Bradley J. et al.	
	277	US-4957483	09-18-1990	GONSER I; Donald et al.	
	278	US-4958148	09-18-1990	OLSON; Jan B.	
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	295	US-4988758	01-29-1991	FUKUDA; Takeshi et al.	
	296	US-4989607	02-05-1991	KEUSCH; Preston et al.	
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	309	US-5006050	04-09-1991	COOKE; James E. et al.	
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	315	US-5026348	06-25-1991	VENEGAS; Jose G.	
	316	US-5030199	07-09-1991	BARWICK; Carl B. et al.	
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	330	US-5059654	10-22-1991	HOU; Kenneth C. et al.	
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	335	US-5082550	01-21-1992	RISHPON; Judith et al.	
	336	US-5088981	02-18-1992	HOWSON; David C. et al.	
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	355	US-5137028	08-11-1992	NISHIMURA; Kinji	
	356	US-5140985	08-25-1992	SCHROEDER; Jon M. et al.	
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	368	US-5176632	01-05-1993	BERNARDI; Luigi	
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	413	US-5282844	02-01-1994	STOKES; Kenneth B. et al.	
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	415	US-5284140	02-08-1994	ALLEN; Douglas J. et al.	
	416	US-5284570	02-08-1994	SAVAGE; Douglas R. et al.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	417	US-5285513	02-08-1994	KAUFMAN; Stanley et al.	
	418	US-5285792	02-15-1994	SJOQUIST; Steven E. et al.	
	419	US-5286364	02-15-1994	YACYNYCH; Alexander M. et al.	
	420	US-5287753	02-22-1994	ROUTH; Helen F. et al.	
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	422	US-5296144	03-22-1994	STERNINA; Larisa F. et al.	
	423	US-5298022	03-29-1994	BERNARDI; Luigi	
	424	US-5298144	03-29-1994	SPOKANE; Robert B.	
	425	US-5299571	04-05-1994	MASTROTOTARO; John J.	
	426	US-5302093	04-12-1994	OWENS; Dana J. et al.	
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	428	US-5304468	04-19-1994	PHILLIPS; Roger et al.	
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	437	US-5320725	06-14-1994	GREGG; Brian A. et al.	
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	445	US-5331555	07-19-1994	HASHIMOTO; Katsuhiko et al.	
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	451	US-5342409	08-30-1994	MULLETT; Keith R.	
	452	US-5342789	08-30-1994	CHICK; William L. et al.	
	453	US-5343869	09-06-1994	PROSS; Gerhard et al.	
	454	US-5344451	09-06-1994	DAYTON; Michael P.	
	455	US-5344454	09-06-1994	CLARKE; Robert A. et al.	
	456	US-5345932	09-13-1994	YAFUSO; Masao et al.	
	457	US-5348788	09-20-1994	WHITE; Eugene W.	

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Art Unit	3791
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Attorney Docket Number	DEXCOM.053C22

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	458	US-5352348	10-04-1994	YOUNG; Chung Chang et al.	
	459	US-5352351	10-04-1994	WHITE; Bradley E. et al.	
	460	US-5354272	10-11-1994	SWENDSON; David L. et al.	
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	462	US-5356375	10-18-1994	HIGLEY; Robert E.	
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	464	US-5356786	10-18-1994	HELLER; Adam et al.	
	465	US-5358409	10-25-1994	OBARA; Robert Z.	
	466	US-5360404	11-01-1994	NOVACEK; Laurel A. et al.	
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	478	US-5379238	01-03-1995	STARK; Edward W.	
	479	US-5380268	01-10-1995	WHEELER; Douglas E.	
	480	US-5380422	01-10-1995	NEGISHI; Akira et al.	
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	482	US-5380536	01-10-1995	HUBBELL; Jeffrey A. et al.	
	483	US-5380665	01-10-1995	CUSACK; Robert F. et al.	
	484	US-5382514	01-17-1995	PASSANITI; Antonino et al.	
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	486	US-5387327	02-07-1995	KHAN; Shahed U M.	
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	489	US-5393401	02-28-1995	KNOLL; Meinhard	
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	495	US-5411052	05-02-1995	MURRAY; Charles G.	
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	499	US-5417206	05-23-1995	KANEYOSHI; Akio	
	500	US-5417395	05-23-1995	FOWLER; James et al.	
	501	US-5421328	06-06-1995	BEDINGHAM; William	
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	508	US-5429129	07-04-1995	LOVEJOY; David A. et al.	
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	515	US-5434412	07-18-1995	SODICKSON; Lester et al.	
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	520	US-5448992	09-12-1995	KUPERSHMIDT; Vladimir	
	521	US-5451260	09-19-1995	VERSTEEG; Vera A. et al.	
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	525	US-5462051	10-31-1995	OKA; Tohru et al.	
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	534	US-5476776	12-19-1995	WILKINS; Ebtisam S.	
	535	US-5480711	01-02-1996	RUEFER; Bruce G.	
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	539	US-5484404	01-16-1996	SCHULMAN; Joseph H. et al.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	540	US-5486776	01-23-1996	CHIANG; David	
	541	US-5489414	02-06-1996	SCHREIBER; Joerg et al.	
	542	US-5490323	02-13-1996	THACKER; James R. et al.	
	543	US-5491474	02-13-1996	SUNI; Jouko et al.	
	544	US-5494562	02-27-1996	MALEY; Thomas C. et al.	
	545	US-5496453	03-05-1996	UENOYAMA; Harumi et al.	
	546	US-5497772	03-12-1996	SCHULMAN; Joseph H. et al.	
	547	US-5502396	03-26-1996	DESARZENS; Pierre et al.	
	548	US-5505828	04-09-1996	WONG; David K. et al.	
	549	US-5507288	04-16-1996	BOECKER; Dirk et al.	
	550	US-5508203	04-16-1996	FULLER; Milton E. et al.	
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	556	US-5513636	05-07-1996	PALTI; Yoram	
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	561	US-5518601	05-21-1996	FOOS; Joseph S. et al.	
	562	US-5527288	06-18-1996	GROSS; Joseph et al.	
	563	US-5529066	06-25-1996	PALTI; Yoram	
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	565	US-5531679	07-02-1996	SCHULMAN; Joseph H. et al.	
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	568	US-5545200	08-13-1996	WEST; Scott H. et al.	
	569	US-5545220	08-13-1996	ANDREWS; Winston A. et al.	
	570	US-5545223	08-13-1996	NEUENFELDT; Steven et al.	
	571	US-5549547	08-27-1996	COHEN; Herbert et al.	
	572	US-5549548	08-27-1996	LARSSON; Rolf	
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	575	US-5549675	08-27-1996	NEUENFELDT; Steven et al.	
	576	US-5551850	09-03-1996	WILLIAMSON; Mark E. et al.	
	577	US-5552112	09-03-1996	SCHIFFMANN; Robert Frank et al.	
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	580	US-5558957	09-24-1996	DATTA; Madhav et al.	

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	581	US-5562614	10-08-1996	O'DONNELL; Joseph A.	
	582	US-5562615	10-08-1996	NASSIF; George A.	
	583	US-5564439	10-15-1996	PICHA; George J.	
	584	US-5568806	10-29-1996	CHENEY II; Paul S. et al.	
	585	US-5569186	10-29-1996	LORD; Peter C. et al.	
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	589	US-5571395	11-05-1996	PARK; Je Kyun et al.	
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	592	US-5577499	11-26-1996	TEVES; Leonides Y.	
	593	US-5582184	12-10-1996	ERICKSON; Brian J. et al.	
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	595	US-5582593	12-10-1996	HULTMAN; Barry W.	
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	601	US-5588560	12-31-1996	BENEDICT; Dale G. et al.	

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	602	US-5589133	12-31-1996	SUZUKI; Hiroaki	
	603	US-5589563	12-31-1996	WARD; Robert S. et al.	
	604	US-5590651	01-07-1997	SHAFFER; Thomas H. et al.	
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	606	US-5593852	01-14-1997	HELLER; Adam et al.	
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	616	US-5628310	05-13-1997	RAO; Govind et al.	
	617	US-5628619	05-13-1997	WILSON; Larry	
	618	US-5628890	05-13-1997	CARTER; Nigel F. et al.	
	619	US-5630978	05-20-1997	DOMB; Abraham J.	
	620	US-5637083	06-10-1997	BERTRAND; William J. et al.	
	621	US-5637135	06-10-1997	OTTENSTEIN; Daniel M. et al.	
	622	US-5640470	06-17-1997	IYER; Lokanathan M. et al.	

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	623	US-5640954	06-24-1997	PFEIFFER; Ernst et al.	
	624	US-5643195	07-01-1997	DREVET; Jean-Baptiste et al.	
	625	US-5651767	07-29-1997	SCHULMAN; Joseph H. et al.	
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	634	US-5660177	08-26-1997	FAUPEL; Mark L. et al.	
	635	US-5662616	09-02-1997	BOUSQUET; Gerald G.	
	636	US-5665061	09-09-1997	ANTWILER; Glen Delbert	
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	638	US-5665215	09-09-1997	BUSSMANN; Stephan A. et al.	
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	641	US-5673694	10-07-1997	RIVERS; Emanuel Phillip	

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	642	US-5676651	10-14-1997	LARSON Jr.; Carl O. et al.	
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	647	US-5686829	11-11-1997	GIRAULT; Hubert	
	648	US-5688239	11-18-1997	WALKER; Frank J.	
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	651	US-5695623	12-09-1997	MICHEL; Peter et al.	
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	658	US-5706807	01-13-1998	PICHA; George J.	
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	662	US-5711685	01-27-1998	WOOD; Richard G.	
	663	US-5711861	01-27-1998	WARD; W. Kenneth. et al.	
	664	US-5713842	02-03-1998	KAY; Dennis	
	665	US-5713888	02-03-1998	NEUENFELDT; Steven et al.	
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	684	US-5763787	06-09-1998	GRAVEL; James L. et al.	
	685	US-5766151	06-16-1998	VALLEY; Kirsten L. et al.	
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	705	US-5798085	08-25-1998	SEATON; William Ernest et al.	
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	723	US-5823802	10-20-1998	BARTLEY; Robert Michael	
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	790	US-5954643	09-21-1999	VAN ANTWERP; Nannette M. et al.	
	791	US-5954685	09-21-1999	TIERNEY; Michael J.	
	792	US-5954954	09-21-1999	HOUCK; Raymond K. et al.	
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	794	US-5957903	09-28-1999	MIRZAEE; Daryush et al.	
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	800	US-5964804	10-12-1999	BRAUKER; James H. et al.	
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Application Number	16690977
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	803	US-5965380	10-12-1999	HELLER; Adam et al.	
	804	US-5967986	10-19-1999	CIMOCHOWSKI; George E. et al.	
	805	US-5971922	10-26-1999	ARITA; Seizaburou et al.	
	806	US-5972199	10-26-1999	HELLER; Adam et al.	
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Attorney Docket Number	DEXCOM.053C22

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	824	US-6014577	01-11-2000	HENNING; Timothy P. et al.	
	825	US-6015392	01-18-2000	DOUGLAS; Joel S. et al.	
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Attorney Docket Number	DEXCOM.053C22

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	844	US-6057377	05-02-2000	SASAKI; Darryl Y. et al.	
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	849	US-6066083	05-23-2000	SLATER; Charles R. et al.	
	850	US-6066088	05-23-2000	DAVIS; Phillip J.	
	851	US-6066448	05-23-2000	WOHLSTADTER; Jacob N. et al.	
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	866	US-6091976	07-18-2000	PFEIFFER; Margret et al.	
	867	US-6093156	07-25-2000	CUNNINGHAM; David D. et al.	
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	871	US-6103033	08-15-2000	SAY; James et al.	
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	882	US-6122351	09-19-2000	SCHLUETER Jr.; Edward L. et al.	
	883	US-6122536	09-19-2000	SUN; Xiaoguong et al.	

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	884	US-6123827	09-26-2000	WONG; David K. et al.	
	885	US-6127154	10-03-2000	MOSBACH; Klaus et al.	
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	919	US-6200772	03-13-2001	VADGAMA; Pankaj Maganlal et al.	
	920	US-6201979	03-13-2001	KURNIK; Ronald T. et al.	
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	923	US-6206856	03-27-2001	MAHURKAR; Sakharam D.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	924	US-6208894	03-27-2001	SCHULMAN; Joseph H. et al.	
	925	US-6212416	04-03-2001	WARD; W. Kenneth. et al.	
	926	US-6212424	04-03-2001	ROBINSON; Mark Ries	
	927	US-6213739	04-10-2001	PHALLEN; Iver J. et al.	
	928	US-6214185	04-10-2001	OFFENBACHER; Helmut et al.	
	929	US-6214901	04-10-2001	CHUDZIK; Stephen J. et al.	
	930	US-6219574	04-17-2001	CORMIER; Michel J N. et al.	
	931	US-6223080	04-24-2001	THOMPSON; David L.	
	932	US-6223083	04-24-2001	ROSAR; George	
	933	US-6230059	05-08-2001	DUFFIN; Edwin G.	
	934	US-6231879	05-15-2001	LI; Rebecca et al.	
	935	US-6232783	05-15-2001	MERRILL; John H.	
	936	US-6233080	05-15-2001	BRENNER; Tomas et al.	
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	944	US-6254586	07-03-2001	MANN; Alfred E. et al.	
	945	US-6255592	07-03-2001	PENNINGTON; Barry et al.	
	946	US-6256522	07-03-2001	SCHULTZ; Jerome S.	
	947	US-6259937	07-10-2001	SCHULMAN; Joseph H. et al.	
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	952	US-6270478	08-07-2001	MERNOEE; Morton	
	953	US-6271332	08-07-2001	LOHMANN; Dieter et al.	
	954	US-6272364	08-07-2001	KURNIK; Ronald T.	
	955	US-6272382	08-07-2001	FALTYS; Michael A. et al.	
	956	US-6272480	08-07-2001	TRESP; Volker et al.	
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	959	US-6275717	08-14-2001	GROSS; Joseph et al.	
	960	US-6280408	08-28-2001	SIPIN; Anatole J.	
	961	US-6283761	09-04-2001	JOAO; Raymond Anthony	
	962	US-6284126	09-04-2001	KURNIK; Ronald T. et al.	
	963	US-6284478	09-04-2001	HELLER; Adam et al.	
	964	US-6285897	09-04-2001	KILCOYNE; John T. et al.	

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	965	US-6293925	09-25-2001	SAFABASH; Jason H. et al.	
	966	US-6294281	09-25-2001	HELLER; Adam	
	967	US-6295506	09-25-2001	HEINONEN; Pekka et al.	
	968	US-6296615	10-02-2001	BROCKWAY; Brian P. et al.	
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	971	US-6299578	10-09-2001	KURNIK; Ronald T. et al.	
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	973	US-6300002	10-09-2001	WEBB; Randle K. et al.	
	974	US-6300884	10-09-2001	WILSON; David L.	
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	984	US-6310110	10-30-2001	MARKOWITZ; Michael A. et al.	
	985	US-6315738	11-13-2001	NISHIKAWA; Hisao et al.	
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	987	US-6325978	12-04-2001	LABUDA; Lawrence L. et al.	
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	995	US-6340588	01-22-2002	NOVA; Michael P. et al.	
	996	US-6341232	01-22-2002	CONN; Thomas E. et al.	
	997	US-6343225	01-29-2002	CLARK Jr.; Leland C.	
	998	US-6344021	02-05-2002	JUSTER; Robert W. et al.	
	999	US-6346114	02-12-2002	SCHRAGA; Steven	
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	1001	US-6355000	03-12-2002	OGURA; Toshihiko	
	1002	US-6356776	03-12-2002	BERNER; Bret et al.	
	1003	US-6358225	03-19-2002	BUTTERFIELD; Robert D.	
	1004	US-6359444	03-19-2002	GRIMES; Craig A.	

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	1005	US-6360888	03-26-2002	MCIVOR; K. Collin. et al.	
	1006	US-6365670	04-02-2002	FRY; Bryan E.	
	1007	US-6366794	04-02-2002	MOUSSY; Francis et al.	
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	1011	US-6370410	04-09-2002	KURNIK; Ronald T. et al.	
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	1015	US-6377828	04-23-2002	CHAIKEN; Joseph et al.	
	1016	US-6379201	04-30-2002	BIGGS; Timothy M. et al.	
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	1020	US-6387709	05-14-2002	MASON; Richard W. et al.	
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	1025	US-6402703	06-11-2002	KENSEY; Kenneth et al.	
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	1037	US-6427088	07-30-2002	BOWMAN; Iv Sam W. et al.	
	1038	US-6430437	08-06-2002	MARRO; Dominic P.	
	1039	US-6432050	08-13-2002	PORAT; Yariv et al.	
	1040	US-6438414	08-20-2002	CONN; Thomas E. et al.	
	1041	US-6440068	08-27-2002	BROWN; Michael Wayne et al.	
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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1044	US-6447542	09-10-2002	WEADOCK; Kevin	
	1045	US-6454710	09-24-2002	BALLERSTADT; Ralph et al.	
	1046	US-6459917	10-01-2002	GOWDA; Ashok et al.	
	1047	US-6461496	10-08-2002	FELDMAN; Benjamin J. et al.	
	1048	US-6464849	10-15-2002	SAY; James L. et al.	
	1049	US-6465066	10-15-2002	RULE; Mark et al.	
	1050	US-6466810	10-15-2002	WARD; W. Kenneth. et al.	
	1051	US-6467480	10-22-2002	MEIER; Bernd Horst et al.	
	1052	US-6468287	10-22-2002	BAUGH; Robert F.	
	1053	US-6471689	10-29-2002	JOSEPH; Jeffery I. et al.	
	1054	US-6471993	10-29-2002	SHASTRI; Venkatram R. et al.	
	1055	US-6474360	11-05-2002	ITO; Takashi	
	1056	US-6475372	11-05-2002	OHARA; Timothy J. et al.	
	1057	US-6475750	11-05-2002	HAN; In Suk et al.	
	1058	US-6477392	11-05-2002	HONIGS; David E. et al.	
	1059	US-6477395	11-05-2002	SCHULMAN; Joseph H. et al.	
	1060	US-6478736	11-12-2002	MAULT; James R.	
	1061	US-6481440	11-19-2002	GIELEN; Frans L H. et al.	
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	1063	US-6484046	11-19-2002	SAY; James et al.	

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	1064	US-6484132	11-19-2002	HIVELY; Lee M. et al.	
	1065	US-6485449	11-26-2002	ITO; Takashi	
	1066	US-6487429	11-26-2002	HOCKERSMITH; Linda et al.	
	1067	US-6488652	12-03-2002	WEIJAND; Koen J. et al.	
	1068	US-6494830	12-17-2002	WESSEL; Paul	
	1069	US-6494879	12-17-2002	LENNOX; Charles D. et al.	
	1070	US-6497655	12-24-2002	LINBERG; Kurt R. et al.	
	1071	US-6497729	12-24-2002	MOUSSY; Francis et al.	
	1072	US-6498043	12-24-2002	SCHULMAN; Joseph H. et al.	
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	1074	US-6501976	12-31-2002	SOHRAB; Borzu	
	1075	US-6510239	01-21-2003	WIERES; Ludwig et al.	
	1076	US-6510329	01-21-2003	HECKEL; Donald W.	
	1077	US-6512939	01-28-2003	COLVIN; Michael S. et al.	
	1078	US-6514689	02-04-2003	HAN; In Suk et al.	
	1079	US-6514718	02-04-2003	HELLER; Adam et al.	
	1080	US-6517508	02-11-2003	UTTERBERG; David S. et al.	
	1081	US-6520326	02-18-2003	MCIVOR; K. Collin. et al.	
	1082	US-6520477	02-18-2003	TRIMMER; William	
	1083	US-6520937	02-18-2003	HART; Colin P. et al.	

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Attorney Docket Number	DEXCOM.053C22

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	1084	US-6520938	02-18-2003	FUNDERBURK; Jeffery V. et al.	
	1085	US-6520997	02-18-2003	PEKKARINEN; Michael O. et al.	
	1086	US-6522903	02-18-2003	BERMAN; Herbert L. et al.	
	1087	US-6522927	02-18-2003	BISHAY; Jon M. et al.	
	1088	US-6524861	02-25-2003	ANDERSON; Eric S.	
	1089	US-6526298	02-25-2003	KHALIL; Omar S. et al.	
	1090	US-6527729	03-04-2003	TURCOTT; Robert	
	1091	US-6528584	03-04-2003	KENNEDY; Joseph P. et al.	
	1092	US-6529755	03-04-2003	KURNIK; Ronald T. et al.	
	1093	US-6534711	03-18-2003	POLLACK; Richard Stephen	
	1094	US-6536433	03-25-2003	CEWERS; Goeran	
	1095	US-6537318	03-25-2003	ITA; Essien Eyo-Okon et al.	
	1096	US-6541107	04-01-2003	ZHONG; Bianxiao et al.	
	1097	US-6541266	04-01-2003	MODZELEWSKI; Brent E. et al.	
	1098	US-6542765	04-01-2003	GUY; Richard et al.	
	1099	US-6544212	04-08-2003	GALLEY; Paul J. et al.	
	1100	US-6545085	04-08-2003	KILGOUR; John A. et al.	
	1101	US-6546268	04-08-2003	ISHIKAWA; Akira et al.	
	1102	US-6546269	04-08-2003	KURNIK; Ronald T.	
	1103	US-6547839	04-15-2003	ZHANG; Zhiwei et al.	

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	1104	US-6549796	04-15-2003	SOHRAB; Borzu	
	1105	US-6551494	04-22-2003	HELLER; Adam et al.	
	1106	US-6551496	04-22-2003	MOLES; Donald R. et al.	
	1107	US-6553241	04-22-2003	MANNHEIMER; Paul D. et al.	
	1108	US-6553244	04-22-2003	LESHO; Matthew J. et al.	
	1109	US-6554805	04-29-2003	HIEJIMA; Katsuhiro	
	1110	US-6554822	04-29-2003	HOLSCHNEIDER; Daniel P. et al.	
	1111	US-6558320	05-06-2003	CAUSEY III; James D. et al.	
	1112	US-6558321	05-06-2003	BURD; John F. et al.	
	1113	US-6558347	05-06-2003	JHUBOO; Abdel Nasser et al.	
	1114	US-6558351	05-06-2003	STEIL; Garry M. et al.	
	1115	US-6560471	05-06-2003	HELLER; Adam et al.	
	1116	US-6561978	05-13-2003	CONN; Thomas E. et al.	
	1117	US-6562001	05-13-2003	LEBEL; Ronald J. et al.	
	1118	US-6564105	05-13-2003	STARKWEATHER; Timothy J. et al.	
	1119	US-6565509	05-20-2003	SAY; James et al.	
	1120	US-6565535	05-20-2003	ZAIAS; Nardo et al.	
	1121	US-6565807	05-20-2003	PATTERSON; William R. et al.	
	1122	US-6569309	05-27-2003	OTSUKA; Kiyoshi et al.	

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	1123	US-6569521	05-27-2003	SHERIDAN; Margaret M. et al.	
	1124	US-6571128	05-27-2003	LEBEL; Ronald J. et al.	
	1125	US-6572545	06-03-2003	KNOBBE; Edward J. et al.	
	1126	US-6572579	06-03-2003	RAGHAVAN; Raghu et al.	
	1127	US-6572745	06-03-2003	RAPPIN; Craig et al.	
	1128	US-6574490	06-03-2003	ABBINK; Russell E. et al.	
	1129	US-6575905	06-10-2003	KNOBBE; Edward J. et al.	
	1130	US-6576101	06-10-2003	HELLER; Adam et al.	
	1131	US-6577899	06-10-2003	LEBEL; Ronald J. et al.	
	1132	US-6579257	06-17-2003	ELGAS; Roger J. et al.	
	1133	US-6579498	06-17-2003	EGLISE; David	
	1134	US-6579690	06-17-2003	BONNECAZE; Roger T. et al.	
	1135	US-6584335	06-24-2003	HAAR; Hans-Peter et al.	
	1136	US-6585644	07-01-2003	LEBEL; Ronald J. et al.	
	1137	US-6585675	07-01-2003	O'MAHONY; John J. et al.	
	1138	US-6585763	07-01-2003	KEILMAN; George W. et al.	
	1139	US-6587704	07-01-2003	FINE; Ilya et al.	
	1140	US-6587705	07-01-2003	KIM; Lynn et al.	
	1141	US-6589229	07-08-2003	CONNELLY I; Robert et al.	
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	1143	US-6591125	07-08-2003	BUSE; John Bernard et al.	

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	1144	US-6592745	07-15-2003	FELDMAN; Benjamin J. et al.	
	1145	US-6594514	07-15-2003	BERNER; Bret et al.	
	1146	US-6595756	07-22-2003	GRAY; John et al.	
	1147	US-6595919	07-22-2003	BERNER; Bret et al.	
	1148	US-6602221	08-05-2003	SARAVIA; Heber et al.	
	1149	US-6603995	08-05-2003	CARTER; Hugh	
	1150	US-6605072	08-12-2003	STRUYS; Michel et al.	
	1151	US-6605200	08-12-2003	MAO; Fei et al.	
	1152	US-6605201	08-12-2003	MAO; Fei et al.	
	1153	US-6607509	08-19-2003	BOBROFF; Randa M. et al.	
	1154	US-6607658	08-19-2003	HELLER; Adam et al.	
	1155	US-6609071	08-19-2003	SHAPIRO; Philip et al.	
	1156	US-6610012	08-26-2003	MAULT; James R.	
	1157	US-6612984	09-02-2003	KERR II; Robert A.	
	1158	US-6613379	09-02-2003	WARD; W. Kenneth. et al.	
	1159	US-6615061	09-02-2003	KHALIL; Omar S. et al.	
	1160	US-6615078	09-02-2003	BURSON; Kim K. et al.	
	1161	US-6618603	09-09-2003	VARALLI; Maurizio Claudio et al.	
	1162	US-6618934	09-16-2003	FELDMAN; Benjamin J. et al.	
	1163	US-6628975	09-30-2003	FEIN; Michael E. et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1164	US-6633772	10-14-2003	FORD; Russell et al.	
	1165	US-6635014	10-21-2003	STARKWEATHER; Timothy J. et al.	
	1166	US-6641533	11-04-2003	CAUSEY III; James D. et al.	
	1167	US-6642015	11-04-2003	VACHON; David J. et al.	
	1168	US-6645181	11-11-2003	LAVI; Gilad et al.	
	1169	US-6645219	11-11-2003	ROE; Steven N.	
	1170	US-6645359	11-11-2003	BHULLAR; Raghbir S. et al.	
	1171	US-6648821	11-18-2003	LEBEL; Ronald J. et al.	
	1172	US-6653091	11-25-2003	DUNN; Timothy C. et al.	
	1173	US-6654625	11-25-2003	SAY; James L. et al.	
	1174	US-6656157	12-02-2003	DUCHON; Doug et al.	
	1175	US-6659948	12-09-2003	LEBEL; Ronald J. et al.	
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	1181	US-6673596	01-06-2004	SAYLER; Gary S. et al.	
	1182	US-6679865	01-20-2004	SHEKALIM; Avraham	
	1183	US-6683535	01-27-2004	UTKE; Gene H.	
	1184	US-6684904	02-03-2004	ITO; Takashi	

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	1185	US-6685668	02-03-2004	CHO; Steve T. et al.	
	1186	US-6687522	02-03-2004	TAMADA; Janet	
	1187	US-6687546	02-03-2004	LEBEL; Ronald J. et al.	
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	1190	US-6689265	02-10-2004	HELLER; Adam et al.	
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	1194	US-6699188	03-02-2004	WESSEL; Paul	
	1195	US-6699218	03-02-2004	FLAHERTY; J. Christopher. et al.	
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	1199	US-6702972	03-09-2004	MARKLE; David Reed	
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	1202	US-6712796	03-30-2004	FENTIS; Robert et al.	
	1203	US-6713773	03-30-2004	LYONS; Stan V. et al.	
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	1205	US-6721587	04-13-2004	GOUGH; David A.	
	1206	US-6723077	04-20-2004	PICKUP; Ray L. et al.	
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	1211	US-6733446	05-11-2004	LEBEL; Ronald J. et al.	
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	1219	US-6742635	06-01-2004	HIRSHBERG; Jonathan	
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	1221	US-6746582	06-08-2004	HELLER; Adam et al.	
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	1225	US-6767632	07-27-2004	AXELGAARD; Jens et al.	
	1226	US-6770030	08-03-2004	SCHAUPP; Lukas et al.	

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	1227	US-6770067	08-03-2004	LORENZEN; Eric et al.	
	1228	US-6773565	08-10-2004	KUNIMOTO; Akira et al.	
	1229	US-6780297	08-24-2004	MATSUMOTO; Toru et al.	
	1230	US-6782343	08-24-2004	HASPER; Albert	
	1231	US-6784274	08-31-2004	VAN ANTWERP; William Peter. et al.	
	1232	US-6789634	09-14-2004	DENTON; Robert	
	1233	US-6790178	09-14-2004	MAULT; James R. et al.	
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	1235	US-6793802	09-21-2004	LEE; Jin Po et al.	
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	1237	US-6802957	10-12-2004	JUNG; Sung-Kw N. et al.	
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	1245	US-6810736	11-02-2004	IKEZAWA; Toshiya et al.	
	1246	US-6811533	11-02-2004	LEBEL; Ronald J. et al.	

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	1247	US-6811534	11-02-2004	BOWMAN; Iv Sam W. et al.	
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	1281	US-6932584	08-23-2005	GRAY; John et al.	
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	1289	US-6954662	10-11-2005	FREGER; David et al.	
	1290	US-6958705	10-25-2005	LEBEL; Ronald J. et al.	
	1291	US-6960192	11-01-2005	FLAHERTY; J. Christopher. et al.	
	1292	US-6965791	11-15-2005	HITCHCOCK; Robert W. et al.	
	1293	US-6966325	11-22-2005	ERICKSON; John	
	1294	US-6968294	11-22-2005	GUTTA; Srinivas et al.	
	1295	US-6971274	12-06-2005	OLIN; John George	
	1296	US-6972080	12-06-2005	TOMIOKA; Toshikazu et al.	
	1297	US-6973706	12-13-2005	SAY; James et al.	
	1298	US-6974437	12-13-2005	LEBEL; Ronald J. et al.	
	1299	US-6975893	12-13-2005	SAY; James L. et al.	
	1300	US-6979315	12-27-2005	ROGERS; Charles et al.	
	1301	US-6983867	01-10-2006	FUGERE; Jeffrey P.	
	1302	US-6989891	01-24-2006	BRAIG; James R. et al.	
	1303	US-6990366	01-24-2006	SAY; James et al.	
	1304	US-6991643	01-31-2006	SAADAT; Vahid	
	1305	US-6997907	02-14-2006	SAFABASH; Jason H. et al.	
	1306	US-6997921	02-14-2006	GRAY; John F. et al.	
	1307	US-6998247	02-14-2006	MONFRE; Stephen L. et al.	
	1308	US-7003336	02-21-2006	HOLKER; James D. et al.	
	1309	US-7003340	02-21-2006	SAY; James et al.	

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Application Number	16690977
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	1310	US-7003341	02-21-2006	SAY; James et al.	
	1311	US-7008979	03-07-2006	SCHOTTMAN; Thomas C. et al.	
	1312	US-7011630	03-14-2006	DESAI; Shashi P. et al.	
	1313	US-7016713	03-21-2006	GARDNER; Craig M. et al.	
	1314	US-7022072	04-04-2006	FOX; James Kelly et al.	
	1315	US-7022219	04-04-2006	MANSOURI; Sohrab et al.	
	1316	US-7024245	04-04-2006	LEBEL; Ronald J. et al.	
	1317	US-7025425	04-11-2006	KOVATCHEV; Boris P. et al.	
	1318	US-7025727	04-11-2006	BROCKWAY; Brian P. et al.	
	1319	US-7025743	04-11-2006	MANN; Alfred E. et al.	
	1320	US-7027848	04-11-2006	ROBINSON; Mark Ries et al.	
	1321	US-7029444	04-18-2006	SHIN; John J. et al.	
	1322	US-7033322	04-25-2006	SILVER; James H.	
	1323	US-7039446	05-02-2006	RUCHTI; Timothy L. et al.	
	1324	US-7041068	05-09-2006	FREEMAN; Dominique M. et al.	
	1325	US-7041468	05-09-2006	DRUCKER; Steven et al.	
	1326	US-7048687	05-23-2006	REUSS; James L. et al.	
	1327	US-7048727	05-23-2006	MOSS; Gerald	
	1328	US-7052483	05-30-2006	WOJCIK; Steven	
	1329	US-7056302	06-06-2006	DOUGLAS; Joel S.	

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	1330	US-7058437	06-06-2006	BUSE; John Bernard et al.	
	1331	US-7058453	06-06-2006	NELSON; Chester Gary et al.	
	1332	US-7060031	06-13-2006	WEBB; James D. et al.	
	1333	US-7060059	06-13-2006	KEITH; Steven et al.	
	1334	US-7061593	06-13-2006	BRAIG; James R. et al.	
	1335	US-7063086	06-20-2006	SHAHBAZPOUR; Mehdi et al.	
	1336	US-7066884	06-27-2006	CUSTER; Linda et al.	
	1337	US-7070577	07-04-2006	HALLER; Markus et al.	
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	1339	US-7073246	07-11-2006	BHULLAR; Raghbir S. et al.	
	1340	US-7074307	07-11-2006	SIMPSON; Peter C. et al.	
	1341	US-7078582	07-18-2006	STEBBINGS; William L. et al.	
	1342	US-7081195	07-25-2006	SIMPSON; Peter et al.	
	1343	US-7097775	08-29-2006	GREENBERG; Robert J. et al.	
	1344	US-7098803	08-29-2006	MANN; Alfred E. et al.	
	1345	US-7100628	09-05-2006	IZENSON; Michael G. et al.	
	1346	US-7108778	09-19-2006	SIMPSON; Peter C. et al.	
	1347	US-7110803	09-19-2006	SHULTS; Mark C. et al.	
	1348	US-7113821	09-26-2006	SUN; Ying et al.	
	1349	US-7114502	10-03-2006	SCHULMAN; Joseph H. et al.	

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	1350	US-7115884	10-03-2006	WALT; David R. et al.	
	1351	US-7118667	10-10-2006	LEE; Jin Po	
	1352	US-7120483	10-10-2006	RUSSELL; Geoffrey A. et al.	
	1353	US-7125382	10-24-2006	ZHOU; Peter et al.	
	1354	US-7131967	11-07-2006	GRAY; John F. et al.	
	1355	US-7134999	11-14-2006	BRAUKER; James H. et al.	
	1356	US-7136689	11-14-2006	SHULTS; Mark C. et al.	
	1357	US-7141034	11-28-2006	EPPSTEIN; Jonathan et al.	
	1358	US-7144496	12-05-2006	MESEROL; Peter et al.	
	1359	US-7146202	12-05-2006	WARD; W. Kenneth. et al.	
	1360	US-7150741	12-19-2006	ERICKSON; John et al.	
	1361	US-7153265	12-26-2006	VACHON; David J.	
	1362	US-7162290	01-09-2007	LEVIN; Paul D.	
	1363	US-7163511	01-16-2007	CONN; Thomas E. et al.	
	1364	US-7166074	01-23-2007	REGHABI; Bahar et al.	
	1365	US-7168597	01-30-2007	JONES; Anthony Patrick et al.	
	1366	US-7169289	01-30-2007	SCHUELEIN; Juergen et al.	
	1367	US-7171274	01-30-2007	STARKWEATHER; Timothy J. et al.	
	1368	US-7172075	02-06-2007	JI; Jiang	
	1369	US-7183102	02-27-2007	MONFRE; Stephen L. et al.	
	1370	US-7184810	02-27-2007	CADUFF; Andreas et al.	

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Attorney Docket Number	DEXCOM.053C22

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	1371	US-7190988	03-13-2007	SAY; James et al.	
	1372	US-7192450	03-20-2007	BRAUKER; James H. et al.	
	1373	US-7198606	04-03-2007	BOECKER; Dirk et al.	
	1374	US-7207968	04-24-2007	HARCINSKE; John C.	
	1375	US-7207974	04-24-2007	SAFABASH; Jason H. et al.	
	1376	US-7211074	05-01-2007	SANSOUCY; Michael	
	1377	US-7221970	05-22-2007	PARKER; Dawood	
	1378	US-7223253	05-29-2007	HOGENDIJK; Michael	
	1379	US-7225535	06-05-2007	FELDMAN; Benjamin J. et al.	
	1380	US-7226978	06-05-2007	TAPSAK; Mark A. et al.	
	1381	US-7228162	06-05-2007	WARD; W. Kenneth. et al.	
	1382	US-7229288	06-12-2007	STUART; Steven et al.	
	1383	US-7238165	07-03-2007	VINCENT; Douglas et al.	
	1384	US-7241266	07-10-2007	ZHOU; Peter et al.	
	1385	US-7241586	07-10-2007	GULATI; Poonam S. et al.	
	1386	US-7247138	07-24-2007	REGHABI; Bahar et al.	
	1387	US-7248906	07-24-2007	DIRAC; Holger et al.	
	1388	US-7254450	08-07-2007	CHRISTOPHERSON; Mark A. et al.	
	1389	US-7255690	08-14-2007	GRAY; John et al.	
	1390	US-7258681	08-21-2007	HOUDE; Eric	
	1391	US-7261690	08-28-2007	TELLER; Eric et al.	

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	1392	US-7266400	09-04-2007	FINE; Ilya et al.	
	1393	US-7267665	09-11-2007	STEIL; Garry M. et al.	
	1394	US-7276029	10-02-2007	GOODE Jr.; Paul V. et al.	
	1395	US-7276146	10-02-2007	WILSEY; Christopher D.	
	1396	US-7276147	10-02-2007	WILSEY; Christopher D.	
	1397	US-7278983	10-09-2007	IRELAND; Jeffrey R. et al.	
	1398	US-7287318	10-30-2007	BHULLAR; Raghbir S. et al.	
	1399	US-7288085	10-30-2007	OLSEN; James M.	
	1400	US-7291497	11-06-2007	HOLMES; Elizabeth A. et al.	
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	1402	US-7299082	11-20-2007	FELDMAN; Benjamin J. et al.	
	1403	US-7310544	12-18-2007	BRISTER; Mark et al.	
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	1405	US-7310544-C2	11-27-2012	BRISTER; Mark. et al.	
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	1411	US-7317939	01-08-2008	FINE; Ilya et al.	
	1412	US-7318814	01-15-2008	LEVINE; Andy H. et al.	

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	1413	US-7324012	01-29-2008	MANN; Alfred E. et al.	
	1414	US-7327273	02-05-2008	HUNG; Orlando R. et al.	
	1415	US-7329234	02-12-2008	SANSOUCY; Michael R.	
	1416	US-7329239	02-12-2008	SAFABASH; Jason H. et al.	
	1417	US-7334594	02-26-2008	LUDIN; Lev	
	1418	US-7335179	02-26-2008	BURNETT; Daniel Rogers	
	1419	US-7335195	02-26-2008	MEHIER; Henri	
	1420	US-7335286	02-26-2008	ABEL; Peter et al.	
	1421	US-7335294	02-26-2008	HELLER; Adam et al.	
	1422	US-7338464	03-04-2008	BLISCHAK; Brian et al.	
	1423	US-7344499	03-18-2008	PRAUSNITZ; Mark R. et al.	
	1424	US-7354420	04-08-2008	STEIL; Garry M. et al.	
	1425	US-7359723	04-15-2008	JONES; Donald John	
	1426	US-7361155	04-22-2008	SAGE Jr.; Burton H. et al.	
	1427	US-7364562	04-29-2008	BRAIG; James R. et al.	
	1428	US-7364592	04-29-2008	CARR-BRENDEL VICTORIA . et al.	
	1429	US-7366556	04-29-2008	BRISTER; Mark et al.	
	1430	US-7366566	04-29-2008	HENRY; Christine et al.	
	1431	US-7367942	05-06-2008	GRAGE; Henry et al.	
	1432	US-7379765	05-27-2008	PETISCE; James et al.	
	1433	US-7381184	06-03-2008	FUNDERBURK; Jeffery V. et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	1434	US-7384397	06-10-2008	ZHANG; Yanan et al.	
	1435	US-7386937	06-17-2008	BHULLAR; Raghbir S. et al.	
	1436	US-7392080	06-24-2008	EPPSTEIN; Jonathan et al.	
	1437	US-7395158	07-01-2008	MONFRE; Stephen L. et al.	
	1438	US-7396353	07-08-2008	LORENZEN; Eric et al.	
	1439	US-7399277	07-15-2008	SAIDARA; Frank et al.	
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	1441	US-7404819	07-29-2008	DARIOS; Roger et al.	
	1442	US-7405055	07-29-2008	DUNN; Timothy C. et al.	
	1443	US-7417164	08-26-2008	SURI; Jeff T.	
	1444	US-7424318	09-09-2008	BRISTER; Mark et al.	
	1445	US-7426408	09-16-2008	DENUZZIO; John D. et al.	
	1446	US-7433727	10-07-2008	WARD; W. Kenneth. et al.	
	1447	US-7460898	12-02-2008	BRISTER; Mark et al.	
	1448	US-7467003	12-16-2008	BRISTER; Mark et al.	
	1449	US-7471972	12-30-2008	RHODES; Rathbun et al.	
	1450	US-7494465	02-24-2009	BRISTER; Mark et al.	
	1451	US-7497827	03-03-2009	BRISTER; Mark et al.	
	1452	US-7497827-C1	10-04-2011	BRISTER; Mark. et al.	
	1453	US-7519408	04-14-2009	RASDAL; Andrew et al.	
	1454	US-7519478	04-14-2009	BARTKOWIAK; Miroslaw et al.	

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Attorney Docket Number	DEXCOM.053C22

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	1455	US-7523004	04-21-2009	BARTKOWIAK; Miroslaw et al.	
	1456	US-7525298	04-28-2009	MORGAN; Wayne A. et al.	
	1457	US-7530950	05-12-2009	BRISTER; et al.	
	1458	US-7565197	07-21-2009	HAUBRICH; Gregory J. et al.	
	1459	US-7574266	08-11-2009	DUDDING; Charles H. et al.	
	1460	US-7582059	09-01-2009	FUNDERBURK; Jeffery V. et al.	
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	1463	US-7591801	09-22-2009	BRAUKER; James H. et al.	
	1464	US-7599726	10-06-2009	GOODE Jr.; Paul V. et al.	
	1465	US-7602310	10-13-2009	MANN; Alfred E. et al.	
	1466	US-7604593	10-20-2009	PARRIS; Norman A. et al.	
	1467	US-7613491	11-03-2009	BOOCK; Robert et al.	
	1468	US-7615007	11-10-2009	SHULTS; Mark et al.	
	1469	US-7618368	11-17-2009	BROWN; Stephen J.	
	1470	US-7618369	11-17-2009	HAYTER; Gary et al.	
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	1472	US-7632228	12-15-2009	BRAUKER; James H. et al.	
	1473	US-7636602	12-22-2009	BARU FASSIO; Marcelo Daniel. et al.	
	1474	US-7637868	12-29-2009	SAINT; Sean et al.	

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	1475	US-7640032	12-29-2009	JONES; Donald John	
	1476	US-7640048	12-29-2009	BRISTER; Mark et al.	
	1477	US-7640048-C1	07-05-2011	DOBBLES; J. Michael. et al.	
	1478	US-7647237	01-12-2010	MALAVE; Luis J. et al.	
	1479	US-7651596	01-26-2010	PETISCE; James R. et al.	
	1480	US-7654956	02-02-2010	BRISTER; Mark et al.	
	1481	US-7657297	02-02-2010	SIMPSON; Peter C. et al.	
	1482	US-7687586	03-30-2010	WARD; Robert S. et al.	
	1483	US-7695434	04-13-2010	MALECHA; Michael	
	1484	US-7697967	04-13-2010	STAFFORD; Gary Ashley	
	1485	US-7699775	04-20-2010	DESAI; Shashi P. et al.	
	1486	US-7711402	05-04-2010	SHULTS; Mark C. et al.	
	1487	US-7711493	05-04-2010	BARTKOWIAK; Miroslaw et al.	
	1488	US-7713574	05-11-2010	BRISTER; Mark et al.	
	1489	US-7713574-C1	06-05-2012	BRISTER; Mark. et al.	
	1490	US-7713574-C2	03-11-2014	BRISTER; Mark. et al.	
	1491	US-7715893	05-11-2010	KAMATH; Apurv Ullas et al.	
	1492	US-7725148	05-25-2010	SHAH; Rajiv et al.	
	1493	US-7731659	06-08-2010	MALECHA; Michael	
	1494	US-7736322	06-15-2010	ROE; Steven N. et al.	
	1495	US-7761126	07-20-2010	GARDNER; Craig M. et al.	

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	1496	US-7766830	08-03-2010	FOX; James Kelly et al.	
	1497	US-7771352	08-10-2010	SHULTS; Mark C. et al.	
	1498	US-7774145	08-10-2010	BRAUKER; James H. et al.	
	1499	US-7774145-C1	03-20-2012	BRAUKER; James H.	
	1500	US-7792562	09-07-2010	SHULTS; Mark C. et al.	
	1501	US-7811231	10-12-2010	JIN; Robert Y. et al.	
	1502	US-7826981	11-02-2010	GOODE Jr.; Paul V. et al.	
	1503	US-7857760	12-28-2010	BRISTER; Mark et al.	
	1504	US-7862622	01-04-2011	DUNLAP; David et al.	
	1505	US-7874985	01-25-2011	KOVATCHEV; Boris P. et al.	
	1506	US-7879010	02-01-2011	HUNN; Marcel et al.	
	1507	US-7881763	02-01-2011	BRAUKER; James H. et al.	
	1508	US-7885697	02-08-2011	BRISTER; Mark et al.	
	1509	US-7885698	02-08-2011	FELDMAN; Benjamin J.	
	1510	US-7890295	02-15-2011	SHIN; John J. et al.	
	1511	US-7896809	03-01-2011	SIMPSON; Peter C. et al.	
	1512	US-7899511	03-01-2011	SHULTS; Mark C. et al.	
	1513	US-7901354	03-08-2011	SHULTS; Mark C. et al.	
	1514	US-7905833	03-15-2011	BRISTER; Mark et al.	
	1515	US-7905833-C1	11-29-2011	BRISTER; Mark. et al.	
	1516	US-7917186	03-29-2011	KAMATH; Apurv Ullas et al.	
	1517	US-7920906	04-05-2011	GOODE Jr.; Paul V. et al.	

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	1518	US-7925321	04-12-2011	GOODE Jr.; Paul V. et al.	
	1519	US-7927274	04-19-2011	RASDAL; Andrew et al.	
	1520	US-7935499	05-03-2011	DUNN; Timothy C. et al.	
	1521	US-7946984	05-24-2011	BRISTER; Mark et al.	
	1522	US-7946985	05-24-2011	MASTROTOTARO; John J. et al.	
	1523	US-7949381	05-24-2011	BRISTER; Mark et al.	
	1524	US-7986986	07-26-2011	GOODE; Paul V. et al.	
	1525	US-7998071	08-16-2011	GOODE Jr.; Paul V. et al.	
	1526	US-8000901	08-16-2011	BRAUKER; James H. et al.	
	1527	US-8005524	08-23-2011	BRAUKER; James H. et al.	
	1528	US-8005525	08-23-2011	GOODE Jr.; Paul V. et al.	
	1529	US-8010174	08-30-2011	GOODE Jr.; Paul V. et al.	
	1530	US-8019421	09-13-2011	DARVISH; Nissim et al.	
	1531	US-8060173	11-15-2011	GOODE Jr.; Paul V. et al.	
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	1538	US-8167801	05-01-2012	GOODE Jr.; Paul V. et al.	

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	1539	US-8170803	05-01-2012	KAMATH; Apurv Ullas et al.	
	1540	US-8216139	07-10-2012	BRAUKER; James H. et al.	
	1541	US-8229534	07-24-2012	BRISTER; Mark et al.	
	1542	US-8231531	07-31-2012	BRISTER; Mark et al.	
	1543	US-8233958	07-31-2012	BRAUKER; James H. et al.	
	1544	US-8251906	08-28-2012	BRAUKER; James H. et al.	
	1545	US-8257259	09-04-2012	BRAUKER; James H. et al.	
	1546	US-8265725	09-11-2012	BRAUKER; James H. et al.	
	1547	US-8275438	09-25-2012	SIMPSON; Peter C. et al.	
	1548	US-8277713	10-02-2012	PETISCE; James R. et al.	
	1549	US-8280475	10-02-2012	BRISTER; Mark et al.	
	1550	US-8282549	10-09-2012	BRAUKER; James H. et al.	
	1551	US-8290559	10-16-2012	SHARIATI; Mohammad Ali et al.	
	1552	US-8290560	10-16-2012	KAMATH; Apurv Ullas et al.	
	1553	US-8290561	10-16-2012	BRAUKER; James H. et al.	
	1554	US-8298142	10-30-2012	SIMPSON; Peter C. et al.	
	1555	US-8311749	11-13-2012	BRAUKER; James H. et al.	
	1556	US-8313434	11-20-2012	BRISTER; Mark et al.	
	1557	US-8321149	11-27-2012	BRAUKER; James H. et al.	
	1558	US-8353881	01-15-2013	JENNEWINE; R. Curtis	
	1559	US-8355753	01-15-2013	BOCHENKO; Walter John et al.	

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Application Number	16690977
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	1560	US-8364229	01-29-2013	SIMPSON; Peter C. et al.	
	1561	US-8366614	02-05-2013	SAY; James et al.	
	1562	US-8374667	02-12-2013	BRAUKER; James H. et al.	
	1563	US-8452368	05-28-2013	BRISTER; Mark et al.	
	1564	US-8457708	06-04-2013	BRISTER; Mark et al.	
	1565	US-8463350	06-11-2013	KAMATH; Apurv Ullas et al.	
	1566	US-8469886	06-25-2013	BRAUKER; James H. et al.	
	1567	US-8474397	07-02-2013	BRISTER; Mark et al.	
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	1569	US-8483791	07-09-2013	BRISTER; Mark et al.	
	1570	US-8506482	08-13-2013	FELDMAN; Benjamin J.	
	1571	US-8515516	08-20-2013	KAMATH; Apurv Ullas et al.	
	1572	US-8515519	08-20-2013	BRISTER; Mark et al.	
	1573	US-8548551	10-01-2013	KAMATH; Apurv Ullas et al.	
	1574	US-8560037	10-15-2013	GOODE Jr.; Paul V. et al.	
	1575	US-8565848	10-22-2013	BRISTER; Mark et al.	
	1576	US-8565849	10-22-2013	KAMATH; Apurv Ullas et al.	
	1577	US-8571625	10-29-2013	KAMATH; Apurv Ullas et al.	
	1578	US-8579816	11-12-2013	KAMATH; Apurv Ullas et al.	
	1579	US-8611978	12-17-2013	KAMATH; Apurv Ullas et al.	
	1580	US-8615282	12-24-2013	BRISTER; Mark et al.	
	1581	US-8663109	03-04-2014	BRISTER; Mark et al.	

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	1582	US-8690775	04-08-2014	BRISTER; Mark et al.	
	1583	US-8731630	05-20-2014	KAMATH; Apurv Ullas et al.	
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	1596	US-9044199	06-02-2015	BRISTER; Mark et al.	
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	1599	US-9078608	07-14-2015	KAMATH; Apurv Ullas et al.	
	1600	US-9078626	07-14-2015	BRISTER; Mark et al.	
	1601	US-9155496	10-13-2015	SHULTS; Mark et al.	
	1602	US-9220449	12-29-2015	PRYOR; Jack et al.	
	1603	US-9247900	02-02-2016	BRISTER; Mark C. et al.	

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	1604	US-9314196	04-19-2016	PRYOR; Jack et al.	
	1605	US-9414777	08-16-2016	BRISTER; Mark et al.	
	1606	US-9603557	03-28-2017	BRISTER; Mark et al.	
	1607	US-9610031	04-04-2017	BRISTER; Mark et al.	
	1608	US-9668677	06-06-2017	BRISTER; Mark C. et al.	
	1609	US-9669156	06-06-2017	JENNEWINE; R. Curtis	
	1610	US-9724028	08-08-2017	BRAUKER; James H. et al.	
	1611	US-9775543	10-03-2017	BRISTER; Mark C. et al.	
	1612	US-9801572	10-31-2017	BRISTER; Mark C. et al.	
	1613	US-9814414	11-14-2017	BRISTER; Mark et al.	
	1614	US-9833176	12-05-2017	BRISTER; Mark et al.	
	1615	US-9918668	03-20-2018	PRYOR; Jack et al.	
	1616	US-10022078	07-17-2018	BRAUKER; James H. et al.	
	1617	US-10314525	06-11-2019	SIMPSON; Peter C. et al.	
	1618	US-20010008187	07-19-2001	HANSSEN; Hans et al.	
	1619	US-20010016682	08-23-2001	BERNER; Bret et al.	
	1620	US-20010020546	09-13-2001	ELDRIDGE; Benjamin N. et al.	
	1621	US-20010021817	09-13-2001	BRUGGER; James M. et al.	
	1622	US-20010027327	10-04-2001	SCHRAGA; Steven	
	1623	US-20010039053	11-08-2001	LISEO; John et al.	
	1624	US-20010039387	11-08-2001	RUTYNOWSKI; Wlodzimierz et al.	

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	1625	US-20010041830	11-15-2001	VARALLI; Maurizio Claudio et al.	
	1626	US-20010044413	11-22-2001	PIERCE; Glenn et al.	
	1627	US-20010044588	11-22-2001	MAULT; James R.	
	1628	US-20010051766	12-13-2001	GAZDZINSKI; Robert F.	
	1629	US-20010051768	12-13-2001	SCHULMAN; Joseph H. et al.	
	1630	US-20010053933	12-20-2001	PHANEUF; Matthew D. et al.	
	1631	US-20020009810	01-24-2002	O'CONNOR; Stephen D. et al.	
	1632	US-20020016535	02-07-2002	MARTIN; W. Blake. et al.	
	1633	US-20020019022	02-14-2002	DUNN; Timothy C. et al.	
	1634	US-20020019330	02-14-2002	MURRAY; Richard et al.	
	1635	US-20020022883	02-21-2002	BURG; Karen J L.	
	1636	US-20020023852	02-28-2002	MCIVOR; K. Collin. et al.	
	1637	US-20020026110	02-28-2002	PARRIS; Norman A. et al.	
	1638	US-20020026111	02-28-2002	ACKERMAN; Neil	
	1639	US-20020032531	03-14-2002	MANSKY; Paul et al.	
	1640	US-20020038081	03-28-2002	FEIN; Michael E. et al.	
	1641	US-20020042090	04-11-2002	HELLER; Adam et al.	
	1642	US-20020042561	04-11-2002	SCHULMAN; Joseph H. et al.	
	1643	US-20020043471	04-18-2002	IKEDA; Shin et al.	

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	1644	US-20020043651	04-18-2002	DARROW; Christopher B. et al.	
	1645	US-20020045808	04-18-2002	FORD; Russell et al.	
	1646	US-20020050250	05-02-2002	PETERSON; Frederic T. et al.	
	1647	US-20020055673	05-09-2002	VAN ANTWERP; William P. et al.	
	1648	US-20020065453	05-30-2002	LESHO; Matthew J. et al.	
	1649	US-20020068860	06-06-2002	CLARK Jr.; Leland C.	
	1650	US-20020071776	06-13-2002	BANDIS; Steven et al.	
	1651	US-20020077599	06-20-2002	WOJCIK; Steven	
	1652	US-20020084196	07-04-2002	LIAMOS; Charles T. et al.	
	1653	US-20020099282	07-25-2002	KNOBBE; Edward J. et al.	
	1654	US-20020099997	07-25-2002	PIRET; Philippe	
	1655	US-20020100474	08-01-2002	KELLNER; Bernd et al.	
	1656	US-20020100725	08-01-2002	LEE; Wha Seop et al.	
	1657	US-20020103499	08-01-2002	PEREZ; Edward P. et al.	
	1658	US-20020106709	08-08-2002	POTTS; Russell O. et al.	
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	1660	US-20020119711	08-29-2002	VAN ANTWERP; Nannette M. et al.	
	1661	US-20020123048	09-05-2002	GAU; Vincent Jen-Jr	
	1662	US-20020128419	09-12-2002	TERRY; Richard N. et al.	
	1663	US-20020128546	09-12-2002	SILVER; James H.	

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	1664	US-20020128594	09-12-2002	DAS; Kusal K. et al.	
	1665	US-20020132279	09-19-2002	HOCKERSMITH; Linda	
	1666	US-20020133063	09-19-2002	HOCKERSMITH; Linda et al.	
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	1673	US-20020161288	10-31-2002	SHIN; John J. et al.	
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	1681	US-20020186185	12-12-2002	IDE; Shigeo et al.	
	1682	US-20020188185	12-12-2002	SOHRAB; Borzu	
	1683	US-20020188216	12-12-2002	KAYYALI; Hani Akram et al.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1684	US-20020188252	12-12-2002	BARDY; Gust H.	
	1685	US-20020193679	12-19-2002	MALAVE; Luis J. et al.	
	1686	US-20020193885	12-19-2002	LEGEAY; Gilbert et al.	
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	1691	US-20030006669	01-09-2003	PEI; Qibing et al.	
	1692	US-20030009093	01-09-2003	SILVER; James H.	
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	1695	US-20030023317	01-30-2003	BRAUKER; James H. et al.	
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	1697	US-20030024811	02-06-2003	DAVIES; Oliver William Hardwick et al.	
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	1699	US-20030032867	02-13-2003	CROTHALL; Katherine D. et al.	
	1700	US-20030032874	02-13-2003	RHODES; Rathbun et al.	
	1701	US-20030036773	02-20-2003	WHITEHURST; Todd K. et al.	
	1702	US-20030042137	03-06-2003	MAO; Fei et al.	
	1703	US-20030049166	03-13-2003	PENDO; Shaun et al.	

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	1704	US-20030050537	03-13-2003	WESSEL; Paul	
	1705	US-20030050546	03-13-2003	DESAI; Shashi P. et al.	
	1706	US-20030054428	03-20-2003	MONFRE; Stephen L. et al.	
	1707	US-20030055464	03-20-2003	DARVISH; Nissim et al.	
	1708	US-20030059631	03-27-2003	AL-LAMEE KADAM GAYAD.	
	1709	US-20030060765	03-27-2003	CAMPBELL; Arthur et al.	
	1710	US-20030065254	04-03-2003	SCHULMAN; Joseph H. et al.	
	1711	US-20030065308	04-03-2003	LEBEL; Ronald J. et al.	
	1712	US-20030070548	04-17-2003	CLAUSEN; Lydia	
	1713	US-20030072741	04-17-2003	BERGLUND; Joseph D. et al.	
	1714	US-20030076082	04-24-2003	MORGAN; Wayne A. et al.	
	1715	US-20030078481	04-24-2003	MCIVOR; K. Collin. et al.	
	1716	US-20030078560	04-24-2003	MILLER; Michael E. et al.	
	1717	US-20030088166	05-08-2003	SAY; James et al.	
	1718	US-20030091433	05-15-2003	TAM; Victoria Tsang et al.	
	1719	US-20030096424	05-22-2003	MAO; Guoqiang et al.	
	1720	US-20030097082	05-22-2003	PURDY; Phillip D. et al.	
	1721	US-20030099682	05-29-2003	MOUSSY; Francis et al.	
	1722	US-20030100040	05-29-2003	BONNECAZE; Roger T. et al.	
	1723	US-20030100821	05-29-2003	HELLER; Adam et al.	

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Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	1724	US-20030104119	06-05-2003	WILSON; George S. et al.	
	1725	US-20030114735	06-19-2003	SILVER; James H. et al.	
	1726	US-20030117296	06-26-2003	SEELY; Andrew J E.	
	1727	US-20030119208	06-26-2003	YOON; Hyun Chul et al.	
	1728	US-20030120152	06-26-2003	OMIYA; Jun	
	1729	US-20030125612	07-03-2003	FOX; James Kelly et al.	
	1730	US-20030125613	07-03-2003	ENEGREN; Bradley J. et al.	
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	1733	US-20030134100	07-17-2003	MAO; Guoqiang et al.	
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	1735	US-20030138674	07-24-2003	ZEIKUS; Gregory J. et al.	
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	1742	US-20030176183	09-18-2003	DRUCKER; Steven et al.	
	1743	US-20030176933	09-18-2003	LEBEL; Ronald J. et al.	
	1744	US-20030181794	09-25-2003	RINI; Christopher J. et al.	

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	1745	US-20030186457	10-02-2003	IWAKI; Yoshihide et al.	
	1746	US-20030187338	10-02-2003	SAY; James et al.	
	1747	US-20030188427	10-09-2003	SAY; James et al.	
	1748	US-20030190383	10-09-2003	KIM; Hag-Yong	
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	1750	US-20030199744	10-23-2003	BUSE; John Bernard et al.	
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	1756	US-20030203991	10-30-2003	SCHOTTMAN; Thomas C. et al.	
	1757	US-20030208113	11-06-2003	MAULT; James R. et al.	
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	1762	US-20030212379	11-13-2003	BYLUND; Adam David et al.	
	1763	US-20030217966	11-27-2003	TAPSAK; Mark A. et al.	
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	1765	US-20030225360	12-04-2003	EPPSTEIN; Jonathan et al.	
	1766	US-20030225361	12-04-2003	SABRA; Mads C.	
	1767	US-20030225437	12-04-2003	FERGUSON; Patrick J.	
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	1770	US-20030235817	12-25-2003	BARTKOWIAK; Miroslaw et al.	
	1771	US-20040002682	01-01-2004	KOVELMAN; Paul H. et al.	
	1772	US-20040006263	01-08-2004	ANDERSON; Edward J. et al.	
	1773	US-20040008761	01-15-2004	KELLIHER; Timothy L. et al.	
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	1775	US-20040011671	01-22-2004	SHULTS; Mark C. et al.	
	1776	US-20040015063	01-22-2004	DENUZZIO; John D. et al.	
	1777	US-20040015134	01-22-2004	LAVI; Gilad et al.	
	1778	US-20040018486	01-29-2004	DUNN; Timothy C. et al.	
	1779	US-20040023253	02-05-2004	KUNWAR; Sandeep et al.	
	1780	US-20040023317	02-05-2004	MOTAMEDI; Massoud et al.	
	1781	US-20040024327	02-05-2004	BRODNICK; Donald Eugene	
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	1783	US-20040030285	02-12-2004	LAVI; Gilad et al.	
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	1806	US-20040111017	06-10-2004	SAY; James L. et al.	

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Application Number	16690977
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	1807	US-20040120848	06-24-2004	TEODORCZYK; Maria	
	1808	US-20040122353	06-24-2004	SHAHMIRIAN; Varaz et al.	
	1809	US-20040127777	07-01-2004	RUCHTI; Timothy L. et al.	
	1810	US-20040127818	07-01-2004	ROE; Steven N. et al.	
	1811	US-20040133131	07-08-2004	KUHN; David L. et al.	
	1812	US-20040133164	07-08-2004	FUNDERBURK; Jeffery V. et al.	
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	1820	US-20040152622	08-05-2004	KEITH; Steven et al.	
	1821	US-20040158138	08-12-2004	KILCOYNE; John T. et al.	
	1822	US-20040158207	08-12-2004	HUNN; Marcel et al.	
	1823	US-20040167382	08-26-2004	GARDNER; Craig M. et al.	
	1824	US-20040167801	08-26-2004	SAY; James et al.	
	1825	US-20040171921	09-02-2004	SAY; James et al.	
	1826	US-20040173472	09-09-2004	JUNG; Sung-Kwon et al.	
	1827	US-20040176672	09-09-2004	SILVER; James H. et al.	

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Attorney Docket Number	DEXCOM.053C22

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	1828	US-20040180391	09-16-2004	GRATZL; Miklos et al.	
	1829	US-20040186362	09-23-2004	BRAUKER; James H. et al.	
	1830	US-20040186365	09-23-2004	JIN; Robert Y. et al.	
	1831	US-20040193025	09-30-2004	STEIL; Garry M. et al.	
	1832	US-20040193090	09-30-2004	LEBEL; Ronald J. et al.	
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	1838	US-20040206916	10-21-2004	COLVIN; Arthur E. et al.	
	1839	US-20040219664	11-04-2004	HELLER; Adam et al.	
	1840	US-20040220517	11-04-2004	STARKWEATHER; Timothy J. et al.	
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	1842	US-20040225338	11-11-2004	LEBEL; Ronald J. et al.	
	1843	US-20040228902	11-18-2004	BENZ; Michael E.	
	1844	US-20040234575	11-25-2004	HORRES; Roland et al.	
	1845	US-20040236200	11-25-2004	SAY; James et al.	
	1846	US-20040236251	11-25-2004	ROE; Steven N. et al.	
	1847	US-20040242982	12-02-2004	SAKATA; Tetsuya et al.	

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	1848	US-20040244151	12-09-2004	SAKATA; Tetsuya et al.	
	1849	US-20040249421	12-09-2004	HAREL; Tami et al.	
	1850	US-20040253365	12-16-2004	WARREN; William L. et al.	
	1851	US-20040254433	12-16-2004	BANDIS; Steven D. et al.	
	1852	US-20040254434	12-16-2004	GOODNOW; Timothy T. et al.	
	1853	US-20040260164	12-23-2004	KILCOYNE; John T. et al.	
	1854	US-20040260234	12-23-2004	SRINIVASAN; Ravi et al.	
	1855	US-20040265940	12-30-2004	SLATER; Jonathan M. et al.	
	1856	US-20040267300	12-30-2004	MACE; Chad Harold	
	1857	US-20050000829	01-06-2005	MORITA; Yoshimitsu et al.	
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	1860	US-20050004438	01-06-2005	WARD; W. Kenneth. et al.	
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	1865	US-20050010265	01-13-2005	BARU FASSIO; Marcelo Daniel. et al.	
	1866	US-20050010269	01-13-2005	LEBEL; Ronald J. et al.	
	1867	US-20050013842	01-20-2005	QIU; Yongxing et al.	
	1868	US-20050016325	01-27-2005	ENOKIDO; Yasushi	

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	1869	US-20050026689	02-03-2005	MARKS; Richard L.	
	1870	US-20050027177	02-03-2005	SHIN; John J. et al.	
	1871	US-20050027180	02-03-2005	GOODE; Paul V. et al.	
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	1873	US-20050027182	02-03-2005	SIDDIQUI; Uzair et al.	
	1874	US-20050027462	02-03-2005	GOODE; Paul V. et al.	
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	1876	US-20050031689	02-10-2005	SHULTS; Mark et al.	
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	1879	US-20050043598	02-24-2005	GOODE Jr.; Paul V. et al.	
	1880	US-20050049472	03-03-2005	MANDA; Ven et al.	
	1881	US-20050051427	03-10-2005	BRAUKER; James H. et al.	
	1882	US-20050051440	03-10-2005	SIMPSON; Peter C. et al.	
	1883	US-20050054909	03-10-2005	PETISCE; James et al.	
	1884	US-20050056551	03-17-2005	WHITE; Stephen Fredrick et al.	
	1885	US-20050056552	03-17-2005	SIMPSON; Peter C. et al.	
	1886	US-20050059871	03-17-2005	GOUGH; David A. et al.	
	1887	US-20050065464	03-24-2005	TALBOT; Cary D. et al.	
	1888	US-20050070770	03-31-2005	DIRAC; Holger et al.	
	1889	US-20050077584	04-14-2005	UHLAND; Scott A. et al.	

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	1890	US-20050079200	04-14-2005	RATHENOW; Jorg et al.	
	1891	US-20050080345	04-14-2005	FINBURGH; Simon E. et al.	
	1892	US-20050085839	04-21-2005	ALLEN; John et al.	
	1893	US-20050090607	04-28-2005	TAPSAK; Mark A. et al.	
	1894	US-20050096512	05-05-2005	FOX; James K. et al.	
	1895	US-20050096519	05-05-2005	DENUZZIO; John D. et al.	
	1896	US-20050101847	05-12-2005	ROUTT; Wilson et al.	
	1897	US-20050103624	05-19-2005	BHULLAR; Raghbir S. et al.	
	1898	US-20050103625	05-19-2005	RHODES; Rathbun et al.	
	1899	US-20050106713	05-19-2005	PHAN; Brigitte Chau. et al.	
	1900	US-20050107677	05-19-2005	WARD; W. Kenneth. et al.	
	1901	US-20050112169	05-26-2005	BRAUKER; James H. et al.	
	1902	US-20050113653	05-26-2005	FOX; James K. et al.	
	1903	US-20050114068	05-26-2005	CHEY; Sjay. et al.	
	1904	US-20050115832	06-02-2005	SIMPSON; Peter C. et al.	
	1905	US-20050118344	06-02-2005	PACETTI; Stephen D.	
	1906	US-20050119720	06-02-2005	GALE; David C. et al.	
	1907	US-20050121322	06-09-2005	SAY; James et al.	
	1908	US-20050124873	06-09-2005	SHULTS; Mark C. et al.	
	1909	US-20050131305	06-16-2005	DANIELSON; Bo G. et al.	
	1910	US-20050131346	06-16-2005	DOUGLAS; Joel S.	
	1911	US-20050133368	06-23-2005	DAVIES; Oliver W H. et al.	

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	1912	US-20050139489	06-30-2005	DAVIES; Oliver William H. et al.	
	1913	US-20050143635	06-30-2005	KAMATH; Apurv U. et al.	
	1914	US-20050143636	06-30-2005	ZHANG; Yanan et al.	
	1915	US-20050143675	06-30-2005	NEEL; Gary T. et al.	
	1916	US-20050154264	07-14-2005	LECOMPTE; Kellie M. et al.	
	1917	US-20050154271	07-14-2005	RASDAL; Andrew et al.	
	1918	US-20050154272	07-14-2005	DIRAC; Holger et al.	
	1919	US-20050161346	07-28-2005	SIMPSON; Peter et al.	
	1920	US-20050173245	08-11-2005	FELDMAN; Benjamin et al.	
	1921	US-20050176136	08-11-2005	BURD; John et al.	
	1922	US-20050176678	08-11-2005	HORRES; Roland et al.	
	1923	US-20050177036	08-11-2005	SHULTS; Mark C. et al.	
	1924	US-20050177398	08-11-2005	WATANABE; Motokazu et al.	
	1925	US-20050181012	08-18-2005	SAINT; Sean et al.	
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	1931	US-20050195930	09-08-2005	SPITAL; Glenn O. et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1932	US-20050196747	09-08-2005	STIENE; Matthias	
	1933	US-20050197554	09-08-2005	POLCHA; Michael	
	1934	US-20050199494	09-15-2005	SAY; James et al.	
	1935	US-20050203360	09-15-2005	BRAUKER; James H. et al.	
	1936	US-20050203364	09-15-2005	MONFRE; Stephen L. et al.	
	1937	US-20050209665	09-22-2005	HUNTER; William L. et al.	
	1938	US-20050211571	09-29-2005	SCHULEIN; Jurgen et al.	
	1939	US-20050215871	09-29-2005	FELDMAN; Benjamin J. et al.	
	1940	US-20050215872	09-29-2005	BERNER; Bret et al.	
	1941	US-20050215979	09-29-2005	KORNERUP; Grete et al.	
	1942	US-20050225361	10-13-2005	RHEE; Young-Chul	
	1943	US-20050228238	10-13-2005	MONITZER; Arnold	
	1944	US-20050233407	10-20-2005	PAMIDI; Prasad et al.	
	1945	US-20050236361	10-27-2005	UFER; Stefan et al.	
	1946	US-20050239154	10-27-2005	FELDMAN; Benjamin J. et al.	
	1947	US-20050239156	10-27-2005	DRUCKER; Steven et al.	
	1948	US-20050241957	11-03-2005	MAO; Fei et al.	
	1949	US-20050242479	11-03-2005	PETISCE; James R. et al.	
	1950	US-20050245795	11-03-2005	GOODE Jr.; Paul V. et al.	
	1951	US-20050245799	11-03-2005	BRAUKER; James H. et al.	

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	1952	US-20050251083	11-10-2005	CARR-BRENDEL VICTORIA . et al.	
	1953	US-20050258037	11-24-2005	HAJIZADEH; Kiamars et al.	
	1954	US-20050261563	11-24-2005	ZHOU; Peter et al.	
	1955	US-20050267325	12-01-2005	BOUCHIER; Mark S. et al.	
	1956	US-20050267440	12-01-2005	HERMAN; Stephen J. et al.	
	1957	US-20050271546	12-08-2005	GERBER; Martin et al.	
	1958	US-20050272989	12-08-2005	SHAH; Rajiv et al.	
	1959	US-20050277164	12-15-2005	DRUCKER; Steven et al.	
	1960	US-20050282997	12-22-2005	WARD; Robert S. et al.	
	1961	US-20050284758	12-29-2005	FUNKE; Tom et al.	
	1962	US-20050287620	12-29-2005	HELLER; Adam et al.	
	1963	US-20050288596	12-29-2005	EIGLER; Neal L. et al.	
	1964	US-20060001538	01-05-2006	KRAFT; Ulrich et al.	
	1965	US-20060001550	01-05-2006	MANN; Alfred E. et al.	
	1966	US-20060003398	01-05-2006	HELLER; Adam et al.	
	1967	US-20060007017	01-12-2006	MANN; Alfred E. et al.	
	1968	US-20060008370	01-12-2006	MASSARO; Peter et al.	
	1969	US-20060010098	01-12-2006	GOODNOW; Timothy T. et al.	
	1970	US-20060015020	01-19-2006	NEALE; Paul et al.	
	1971	US-20060015024	01-19-2006	BRISTER; Mark et al.	
	1972	US-20060016700	01-26-2006	BRISTER; Mark et al.	

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First Named Inventor	PRYOR; Jack
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Attorney Docket Number	DEXCOM.053C22

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	1973	US-20060019327	01-26-2006	BRISTER; Mark et al.	
	1974	US-20060020186	01-26-2006	BRISTER; Mark et al.	
	1975	US-20060020187	01-26-2006	BRISTER; Mark et al.	
	1976	US-20060020188	01-26-2006	KAMATH; Apurv U. et al.	
	1977	US-20060020189	01-26-2006	BRISTER; Mark et al.	
	1978	US-20060020190	01-26-2006	KAMATH; Apurv U. et al.	
	1979	US-20060020191	01-26-2006	BRISTER; Mark et al.	
	1980	US-20060020192	01-26-2006	BRISTER; Mark et al.	
	1981	US-20060025663	02-02-2006	TALBOT; Cary D. et al.	
	1982	US-20060036139	02-16-2006	BRISTER; Mark et al.	
	1983	US-20060036140	02-16-2006	BRISTER; Mark et al.	
	1984	US-20060036141	02-16-2006	KAMATH; Apurv U. et al.	
	1985	US-20060036142	02-16-2006	BRISTER; Mark et al.	
	1986	US-20060036143	02-16-2006	BRISTER; Mark et al.	
	1987	US-20060036144	02-16-2006	BRISTER; Mark et al.	
	1988	US-20060036145	02-16-2006	BRISTER; Mark et al.	
	1989	US-20060040402	02-23-2006	BRAUKER; James H. et al.	
	1990	US-20060042080	03-02-2006	SAY; James et al.	
	1991	US-20060047215	03-02-2006	NEWMAN; Richard W. et al.	
	1992	US-20060049359	03-09-2006	BUSTA; Heinz H. et al.	
	1993	US-20060052745	03-09-2006	VAN ANTWERP; Nannette M. et al.	

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	1994	US-20060065527	03-30-2006	SAMPRONI; Jennifer A.	
	1995	US-20060068208	03-30-2006	TAPSAK; Mark A. et al.	
	1996	US-20060074564	04-06-2006	BARTKOWIAK; Miroslaw et al.	
	1997	US-20060079740	04-13-2006	SILVER; James H. et al.	
	1998	US-20060079809	04-13-2006	GOLDBERGER; Daniel et al.	
	1999	US-20060086624	04-27-2006	TAPSAK; Mark A. et al.	
	2000	US-20060094946	05-04-2006	KELLOGG; Scott C. et al.	
	2001	US-20060100588	05-11-2006	BRUNNBERG; Lennart et al.	
	2002	US-20060118415	06-08-2006	SAY; James et al.	
	2003	US-20060142651	06-29-2006	BRISTER; Mark et al.	
	2004	US-20060155180	07-13-2006	BRISTER; Mark et al.	
	2005	US-20060159718	07-20-2006	RATHENOW; Jorg et al.	
	2006	US-20060159981	07-20-2006	HELLER; Adam	
	2007	US-20060166629	07-27-2006	REGGIARDO; Christopher V.	
	2008	US-20060169599	08-03-2006	FELDMAN; Benjamin J. et al.	
	2009	US-20060171980	08-03-2006	HELMUS; Michael N. et al.	
	2010	US-20060173444	08-03-2006	CHOY; David Y. et al.	
	2011	US-20060183178	08-17-2006	GULATI; Poonam S. et al.	
	2012	US-20060183871	08-17-2006	WARD; Robert S. et al.	
	2013	US-20060183984	08-17-2006	DOBBLES; J. Michael. et al.	

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	2014	US-20060183985	08-17-2006	BRISTER; Mark et al.	
	2015	US-20060189856	08-24-2006	PETISCE; James et al.	
	2016	US-20060189863	08-24-2006	PEYSER; Thomas et al.	
	2017	US-20060195029	08-31-2006	SHULTS; Mark C. et al.	
	2018	US-20060198864	09-07-2006	SHULTS; Mark et al.	
	2019	US-20060200019	09-07-2006	PETISCE; James et al.	
	2020	US-20060200020	09-07-2006	BRISTER; Mark et al.	
	2021	US-20060200022	09-07-2006	BRAUKER; James H. et al.	
	2022	US-20060200970	09-14-2006	BRISTER; Mark et al.	
	2023	US-20060200981	09-14-2006	BHULLAR; Raghbir S. et al.	
	2024	US-20060200982	09-14-2006	BHULLAR; Raghbir S. et al.	
	2025	US-20060204536	09-14-2006	SHULTS; Mark et al.	
	2026	US-20060211921	09-21-2006	BRAUKER; James H. et al.	
	2027	US-20060222566	10-05-2006	BRAUKER; James H. et al.	
	2028	US-20060224108	10-05-2006	BRAUKER; James H. et al.	
	2029	US-20060224109	10-05-2006	STEIL; Garry M. et al.	
	2030	US-20060224141	10-05-2006	RUSH; Benjamin M. et al.	
	2031	US-20060226985	10-12-2006	GOODNOW; Timothy T. et al.	
	2032	US-20060229512	10-12-2006	PETISCE; James R. et al.	
	2033	US-20060235285	10-19-2006	BRISTER; Mark et al.	
	2034	US-20060247508	11-02-2006	FENNELL; Martin J.	

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	2035	US-20060247710	11-02-2006	GOETZ; Steven M. et al.	
	2036	US-20060253085	11-09-2006	GEISMAR; Eric P. et al.	
	2037	US-20060253086	11-09-2006	MOBERG; Sheldon B. et al.	
	2038	US-20060257995	11-16-2006	SIMPSON; Peter et al.	
	2039	US-20060257996	11-16-2006	SIMPSON; Peter C. et al.	
	2040	US-20060258761	11-16-2006	BOOCK; Robert et al.	
	2041	US-20060258929	11-16-2006	GOODE Jr.; Paul V. et al.	
	2042	US-20060263673	11-23-2006	KIM; Jong K. et al.	
	2043	US-20060263763	11-23-2006	SIMPSON; Peter C. et al.	
	2044	US-20060263839	11-23-2006	WARD; W. Kenneth. et al.	
	2045	US-20060264888	11-23-2006	MOBERG; Sheldon B. et al.	
	2046	US-20060270922	11-30-2006	BRAUKER; James H. et al.	
	2047	US-20060270923	11-30-2006	BRAUKER; James H. et al.	
	2048	US-20060275859	12-07-2006	KJAER; Thomas	
	2049	US-20060281985	12-14-2006	WARD; W. Kenneth. et al.	
	2050	US-20060287691	12-21-2006	DREW; Touby A.	
	2051	US-20060289307	12-28-2006	YU; Bazhang et al.	
	2052	US-20060293576	12-28-2006	VAN ANTWERP; Nannette M. et al.	
	2053	US-20070003588	01-04-2007	CHINN; Joseph A. et al.	
	2054	US-20070007133	01-11-2007	MANG; Andre et al.	
	2055	US-20070016381	01-18-2007	KAMATH; Apurv et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	2056	US-20070017805	01-25-2007	HODGES; Alastair et al.	
	2057	US-20070027370	02-01-2007	BRAUKER; James H. et al.	
	2058	US-20070027381	02-01-2007	STAFFORD; Gary A.	
	2059	US-20070027384	02-01-2007	BRISTER; Mark et al.	
	2060	US-20070027385	02-01-2007	BRISTER; Mark et al.	
	2061	US-20070032706	02-08-2007	KAMATH; Apurv et al.	
	2062	US-20070032717	02-08-2007	BRISTER; Mark et al.	
	2063	US-20070032718	02-08-2007	SHULTS; Mark C. et al.	
	2064	US-20070038044	02-15-2007	DOBBLES; J. Michael. et al.	
	2065	US-20070045902	03-01-2007	BRAUKER; James H. et al.	
	2066	US-20070049865	03-01-2007	RADMER; Jim et al.	
	2067	US-20070049873	03-01-2007	HANSEN; Torben S. et al.	
	2068	US-20070059196	03-15-2007	BRISTER; Mark et al.	
	2069	US-20070060814	03-15-2007	STAFFORD; Gary A.	
	2070	US-20070066873	03-22-2007	KAMATH; Apurv et al.	
	2071	US-20070073129	03-29-2007	SHAH; Rajiv et al.	
	2072	US-20070078320	04-05-2007	STAFFORD; Gary A.	
	2073	US-20070078321	04-05-2007	MAZZA; John C. et al.	
	2074	US-20070078322	04-05-2007	STAFFORD; Gary A.	
	2075	US-20070085995	04-19-2007	PESACH; Benny et al.	
	2076	US-20070093704	04-26-2007	BRISTER; Mark et al.	
	2077	US-20070106135	05-10-2007	SLOAN; Mark K. et al.	

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Attorney Docket Number	DEXCOM.053C22

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	2078	US-20070111196	05-17-2007	ALARCON; Javier et al.	
	2079	US-20070116600	05-24-2007	KOCHAR; Manish S. et al.	
	2080	US-20070129524	06-07-2007	SUNKARA; Hari B.	
	2081	US-20070129619	06-07-2007	WARD; W. Kenneth. et al.	
	2082	US-20070129621	06-07-2007	KELLOGG; Scott C. et al.	
	2083	US-20070135698	06-14-2007	SHAH; Rajiv et al.	
	2084	US-20070135699	06-14-2007	WARD; W. Kenneth. et al.	
	2085	US-20070142584	06-21-2007	SCHORZMAN; Derek et al.	
	2086	US-20070149875	06-28-2007	OUYANG; Tianmei et al.	
	2087	US-20070151869	07-05-2007	HELLER; Adam et al.	
	2088	US-20070156033	07-05-2007	CAUSEY III; James D. et al.	
	2089	US-20070161070	07-12-2007	WILSEY; Christopher D.	
	2090	US-20070161880	07-12-2007	SAY; James et al.	
	2091	US-20070163880	07-19-2007	WOO; Kum M. et al.	
	2092	US-20070173706	07-26-2007	NEINAST; Mark et al.	
	2093	US-20070173709	07-26-2007	PETISCE; James R. et al.	
	2094	US-20070173710	07-26-2007	PETISCE; James R. et al.	
	2095	US-20070173711	07-26-2007	SHAH; Rajiv et al.	
	2096	US-20070179436	08-02-2007	BRAIG; James R. et al.	
	2097	US-20070191701	08-16-2007	FELDMAN; Benjamin J. et al.	
	2098	US-20070197889	08-23-2007	BRISTER; Mark et al.	

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	2099	US-20070197890	08-23-2007	BOOCK; Robert et al.	
	2100	US-20070200254	08-30-2007	CURRY; Kenneth M.	
	2101	US-20070200267	08-30-2007	TSAI; Steve	
	2102	US-20070202562	08-30-2007	CURRY; Kenneth M.	
	2103	US-20070202672	08-30-2007	CURRY; Kenneth M.	
	2104	US-20070203407	08-30-2007	HOSS; Udo et al.	
	2105	US-20070203410	08-30-2007	SAY; James et al.	
	2106	US-20070203966	08-30-2007	BRAUKER; James H. et al.	
	2107	US-20070206193	09-06-2007	PESACH; Benny	
	2108	US-20070208244	09-06-2007	BRAUKER; James H. et al.	
	2109	US-20070208245	09-06-2007	BRAUKER; James H. et al.	
	2110	US-20070208246	09-06-2007	BRAUKER; James H. et al.	
	2111	US-20070213610	09-13-2007	SAY; James et al.	
	2112	US-20070213611	09-13-2007	SIMPSON; Peter C. et al.	
	2113	US-20070215491	09-20-2007	HELLER; Adam et al.	
	2114	US-20070218097	09-20-2007	HELLER; Adam et al.	
	2115	US-20070219441	09-20-2007	CARLIN; Patrick et al.	
	2116	US-20070219496	09-20-2007	KAMEN; Dean et al.	
	2117	US-20070222609	09-27-2007	DURON; Mark et al.	
	2118	US-20070225579	09-27-2007	LUCASSEN; Gerard et al.	
	2119	US-20070225675	09-27-2007	ROBINSON; Mark Ries et al.	

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	2120	US-20070227907	10-04-2007	SHAH; Rajiv et al.	
	2121	US-20070232876	10-04-2007	OTTO; Erik et al.	
	2122	US-20070232879	10-04-2007	BRISTER; Mark et al.	
	2123	US-20070233013	10-04-2007	SCHOENBERG; Stephen J.	
	2124	US-20070235331	10-11-2007	SIMPSON; Peter C. et al.	
	2125	US-20070240497	10-18-2007	ROBINSON; Mark Ries et al.	
	2126	US-20070244381	10-18-2007	ROBINSON; Mark Ries et al.	
	2127	US-20070244382	10-18-2007	ROBINSON; Mark Ries et al.	
	2128	US-20070244383	10-18-2007	TALBOT; Cary D. et al.	
	2129	US-20070249916	10-25-2007	PESACH; Benny et al.	
	2130	US-20070249922	10-25-2007	PEYSER; Thomas A. et al.	
	2131	US-20070255114	11-01-2007	ACKERMANN; Friedrich et al.	
	2132	US-20070255126	11-01-2007	MOBERG; Sheldon B. et al.	
	2133	US-20070255531	11-01-2007	DREW; Touby A.	
	2134	US-20070258395	11-08-2007	JOLLOTA; James et al.	
	2135	US-20070259217	11-08-2007	LOGAN; Bruce	
	2136	US-20070275193	11-29-2007	DESIMONE; Joseph M. et al.	
	2137	US-20070276211	11-29-2007	MIR; Jose et al.	
	2138	US-20070282180	12-06-2007	CADUFF; Andreas et al.	
	2139	US-20070299385	12-27-2007	SANTINI Jr.; John T. et al.	

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	2140	US-20070299409	12-27-2007	WHITBOURNE; Richard J. et al.	
	2141	US-20080001318	01-03-2008	SCHORZMAN; Derek et al.	
	2142	US-20080009692	01-10-2008	STAFFORD; Gary Ashley	
	2143	US-20080017522	01-24-2008	HELLER; Adam et al.	
	2144	US-20080021666	01-24-2008	GOODE Jr.; Paul V. et al.	
	2145	US-20080027245	01-31-2008	SURI; Jeff T.	
	2146	US-20080029390	02-07-2008	ROCHE; Joelle et al.	
	2147	US-20080029391	02-07-2008	MAO; Fei et al.	
	2148	US-20080030369	02-07-2008	MANN; Alfred E. et al.	
	2149	US-20080033254	02-07-2008	KAMATH; Apurv Ullas. et al.	
	2150	US-20080033268	02-07-2008	STAFFORD; Gary Ashley	
	2151	US-20080033269	02-07-2008	ZHANG; Yanan	
	2152	US-20080034972	02-14-2008	GOUGH; David A. et al.	
	2153	US-20080039702	02-14-2008	HAYTER; Gary et al.	
	2154	US-20080045824	02-21-2008	TAPSAK; Mark A. et al.	
	2155	US-20080064941	03-13-2008	FUNDERBURK; Jeffery V. et al.	
	2156	US-20080064943	03-13-2008	TALBOT; Cary D. et al.	
	2157	US-20080064944	03-13-2008	VAN ANTWERP; Nannette M. et al.	
	2158	US-20080070231	03-20-2008	FRANCISKOVICH; Phillip P. et al.	
	2159	US-20080071156	03-20-2008	BRISTER; Mark et al.	

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	2160	US-20080071157	03-20-2008	MCGARRAUGH; Geoffrey V. et al.	
	2161	US-20080071158	03-20-2008	MCGARRAUGH; Geoffrey V. et al.	
	2162	US-20080071328	03-20-2008	HAUBRICH; Gregory J. et al.	
	2163	US-20080072663	03-27-2008	KEENAN; Richard et al.	
	2164	US-20080081969	04-03-2008	FELDMAN; Benjamin J. et al.	
	2165	US-20080083617	04-10-2008	SIMPSON; Peter C. et al.	
	2166	US-20080086040	04-10-2008	HELLER; Adam et al.	
	2167	US-20080086041	04-10-2008	HELLER; Adam et al.	
	2168	US-20080086042	04-10-2008	BRISTER; Mark et al.	
	2169	US-20080086043	04-10-2008	HELLER; Adam et al.	
	2170	US-20080086044	04-10-2008	BRISTER; Mark et al.	
	2171	US-20080086273	04-10-2008	SHULTS; Mark et al.	
	2172	US-20080091094	04-17-2008	HELLER; Adam et al.	
	2173	US-20080091095	04-17-2008	HELLER; Adam et al.	
	2174	US-20080108942	05-08-2008	BRISTER; Mark et al.	
	2175	US-20080119703	05-22-2008	BRISTER; Mark et al.	
	2176	US-20080119704	05-22-2008	BRISTER; Mark et al.	
	2177	US-20080119705	05-22-2008	PATEL; Himanshu et al.	
	2178	US-20080119706	05-22-2008	BRISTER; Mark et al.	
	2179	US-20080119707	05-22-2008	STAFFORD; Gary Ashley	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	2180	US-20080125751	05-29-2008	FJIELD; Todd et al.	
	2181	US-20080139910	06-12-2008	MASTROTOTARO; John J. et al.	
	2182	US-20080154101	06-26-2008	JAIN; Faquir et al.	
	2183	US-20080161666	07-03-2008	FELDMAN; Benjamin J. et al.	
	2184	US-20080183061	07-31-2008	GOODE; Paul V. et al.	
	2185	US-20080183399	07-31-2008	GOODE; Paul V. et al.	
	2186	US-20080187655	08-07-2008	MARKLE; David R. et al.	
	2187	US-20080188722	08-07-2008	MARKLE; David R. et al.	
	2188	US-20080188725	08-07-2008	MARKLE; David R. et al.	
	2189	US-20080188731	08-07-2008	BRISTER; Mark et al.	
	2190	US-20080189051	08-07-2008	GOODE; Paul V. et al.	
	2191	US-20080193936	08-14-2008	SQUIRRELL; David James	
	2192	US-20080194837	08-14-2008	KIM; Yong-Chul et al.	
	2193	US-20080194935	08-14-2008	BRISTER; Mark et al.	
	2194	US-20080194936	08-14-2008	GOODE; Paul V. et al.	
	2195	US-20080194937	08-14-2008	GOODE; Paul V. et al.	
	2196	US-20080194938	08-14-2008	BRISTER; Mark et al.	
	2197	US-20080195232	08-14-2008	CARR-BRENDEL VICTORIA . et al.	
	2198	US-20080195967	08-14-2008	GOODE; Paul V. et al.	
	2199	US-20080197024	08-21-2008	SIMPSON; Peter C. et al.	

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First Named Inventor	PRYOR; Jack
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Attorney Docket Number	DEXCOM.053C22

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	2200	US-20080200788	08-21-2008	BRISTER; Mark et al.	
	2201	US-20080200789	08-21-2008	BRISTER; Mark et al.	
	2202	US-20080200791	08-21-2008	SIMPSON; Peter C. et al.	
	2203	US-20080208025	08-28-2008	SHULTS; Mark C. et al.	
	2204	US-20080210557	09-04-2008	HELLER; Adam et al.	
	2205	US-20080214915	09-04-2008	BRISTER; Mark et al.	
	2206	US-20080214918	09-04-2008	BRISTER; Mark et al.	
	2207	US-20080228051	09-18-2008	SHULTS; Mark C. et al.	
	2208	US-20080228054	09-18-2008	SHULTS; Mark C. et al.	
	2209	US-20080235469	09-25-2008	DREW; Touby A.	
	2210	US-20080242961	10-02-2008	BRISTER; Mark et al.	
	2211	US-20080255438	10-16-2008	SAIDARA; Frank et al.	
	2212	US-20080255440	10-16-2008	EILERSEN; Michael et al.	
	2213	US-20080262334	10-23-2008	DUNN; Timothy C. et al.	
	2214	US-20080262469	10-23-2008	BRISTER; Mark C. et al.	
	2215	US-20080275313	11-06-2008	BRISTER; Mark et al.	
	2216	US-20080275326	11-06-2008	KASIELKE; Joachim et al.	
	2217	US-20080287764	11-20-2008	RASDAL; Andrew et al.	
	2218	US-20080287765	11-20-2008	RASDAL; Andrew et al.	
	2219	US-20080287766	11-20-2008	RASDAL; Andrew et al.	
	2220	US-20080296155	12-04-2008	SHULTS; Mark C. et al.	
	2221	US-20080305009	12-11-2008	GAMSEY; Soya et al.	

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Art Unit	3791
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Attorney Docket Number	DEXCOM.053C22

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	2222	US-20080305506	12-11-2008	SURI; Jeff T.	
	2223	US-20080306368	12-11-2008	GOODE Jr.; Paul V. et al.	
	2224	US-20080306433	12-11-2008	CESARONI; Anthony J.	
	2225	US-20080306434	12-11-2008	DOBBLES; John Michael et al.	
	2226	US-20080306435	12-11-2008	KAMATH; Apurv U. et al.	
	2227	US-20080306444	12-11-2008	BRISTER; Mark C. et al.	
	2228	US-20080312397	12-18-2008	LAI; Yu-Chin et al.	
	2229	US-20080312518	12-18-2008	JINA; Arvind N. et al.	
	2230	US-20080312859	12-18-2008	SKYGGEBJERG; Ole et al.	
	2231	US-20080313896	12-25-2008	SHAH; Rajiv et al.	
	2232	US-20090005666	01-01-2009	SHIN; John J. et al.	
	2233	US-20090012379	01-08-2009	GOODE Jr.; Paul V. et al.	
	2234	US-20090018418	01-15-2009	MARKLE; David R. et al.	
	2235	US-20090018424	01-15-2009	KAMATH; Apurv Ullas et al.	
	2236	US-20090018425	01-15-2009	OUYANG; Tianmei et al.	
	2237	US-20090018426	01-15-2009	MARKLE; David R. et al.	
	2238	US-20090020502	01-22-2009	BHULLAR; Raghbir S. et al.	
	2239	US-20090030294	01-29-2009	PETISCE; James R. et al.	
	2240	US-20090036758	02-05-2009	BRAUKER; James H. et al.	
	2241	US-20090036763	02-05-2009	BRAUKER; James H. et al.	
	2242	US-20090043181	02-12-2009	BRAUKER; James H. et al.	

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	2243	US-20090043182	02-12-2009	BRAUKER; James H. et al.	
	2244	US-20090043525	02-12-2009	BRAUKER; James H. et al.	
	2245	US-20090043541	02-12-2009	BRAUKER; James H. et al.	
	2246	US-20090043542	02-12-2009	BRAUKER; James H. et al.	
	2247	US-20090045055	02-19-2009	RHODES; Rathbun K. et al.	
	2248	US-20090054748	02-26-2009	FELDMAN; Benjamin J.	
	2249	US-20090054812	02-26-2009	MACE; Chad Harold	
	2250	US-20090061528	03-05-2009	SURI; Jeff T.	
	2251	US-20090062633	03-05-2009	BRAUKER; James H. et al.	
	2252	US-20090062635	03-05-2009	BRAUKER; James H. et al.	
	2253	US-20090062645	03-05-2009	FEHRE; Jens et al.	
	2254	US-20090076356	03-19-2009	SIMPSON; Peter C. et al.	
	2255	US-20090076360	03-19-2009	BRISTER; Mark et al.	
	2256	US-20090076361	03-19-2009	KAMATH; Apurv Ullas et al.	
	2257	US-20090081803	03-26-2009	GAMSEY; Soya et al.	
	2258	US-20090085768	04-02-2009	PATEL; Himanshu et al.	
	2259	US-20090099434	04-16-2009	LIU; Zenghe et al.	
	2260	US-20090099436	04-16-2009	BRISTER; Mark et al.	
	2261	US-20090112478	04-30-2009	MUELLER Jr.; John C. et al.	
	2262	US-20090124877	05-14-2009	GOODE Jr.; Paul V. et al.	
	2263	US-20090124878	05-14-2009	GOODE Jr.; Paul V. et al.	
	2264	US-20090124879	05-14-2009	BRISTER; Mark et al.	

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	2265	US-20090124964	05-14-2009	LEACH; Jacob S. et al.	
	2266	US-20090131768	05-21-2009	SIMPSON; Peter C. et al.	
	2267	US-20090131769	05-21-2009	LEACH; Jacob S. et al.	
	2268	US-20090131776	05-21-2009	SIMPSON; Peter C. et al.	
	2269	US-20090131777	05-21-2009	SIMPSON; Peter C. et al.	
	2270	US-20090137886	05-28-2009	SHARIATI; Mohammad Ali et al.	
	2271	US-20090137887	05-28-2009	SHARIATI; Mohammad Ali et al.	
	2272	US-20090143659	06-04-2009	LI; Ying et al.	
	2273	US-20090143660	06-04-2009	BRISTER; Mark et al.	
	2274	US-20090150186	06-11-2009	COHEN; Gary et al.	
	2275	US-20090156919	06-18-2009	BRISTER; Mark et al.	
	2276	US-20090156924	06-18-2009	SHARIATI; Mohammad Ali et al.	
	2277	US-20090163790	06-25-2009	BRISTER; Mark et al.	
	2278	US-20090163791	06-25-2009	BRISTER; Mark et al.	
	2279	US-20090177059	07-09-2009	SAY; James et al.	
	2280	US-20090177060	07-09-2009	SAY; James et al.	
	2281	US-20090177143	07-09-2009	MARKLE; William H. et al.	
	2282	US-20090178459	07-16-2009	LI; Ying et al.	
	2283	US-20090182217	07-16-2009	LI; Ying et al.	
	2284	US-20090187090	07-23-2009	SAY; James et al.	

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	2285	US-20090187091	07-23-2009	SAY; James et al.	
	2286	US-20090192366	07-30-2009	MENSINGER; Michael Robert et al.	
	2287	US-20090192380	07-30-2009	SHARIATI; Mohammad Ali et al.	
	2288	US-20090192722	07-30-2009	SHARIATI; Mohammad Ali et al.	
	2289	US-20090192724	07-30-2009	BRAUKER; James H. et al.	
	2290	US-20090192745	07-30-2009	KAMATH; Apurv Ullas et al.	
	2291	US-20090192751	07-30-2009	KAMATH; Apurv Ullas et al.	
	2292	US-20090203981	08-13-2009	BRAUKER; James H. et al.	
	2293	US-20090204340	08-13-2009	FELDMAN; Benjamin J. et al.	
	2294	US-20090204341	08-13-2009	BRAUKER; James H. et al.	
	2295	US-20090216103	08-27-2009	BRISTER; Mark et al.	
	2296	US-20090240120	09-24-2009	MENSINGER; Michael Robert et al.	
	2297	US-20090240128	09-24-2009	MENSINGER; Michael Robert et al.	
	2298	US-20090240193	09-24-2009	MENSINGER; Michael Robert et al.	
	2299	US-20090242399	10-01-2009	KAMATH; Apurv Ullas et al.	
	2300	US-20090242425	10-01-2009	KAMATH; Apurv Ullas et al.	
	2301	US-20090247855	10-01-2009	BOOCK; Robert et al.	
	2302	US-20090247856	10-01-2009	BOOCK; Robert et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	2303	US-20090247857	10-01-2009	HARPER; Wesley Scott et al.	
	2304	US-20090264719	10-22-2009	MARKLE; David R. et al.	
	2305	US-20090264856	10-22-2009	LEBEL; Ronald J. et al.	
	2306	US-20090287073	11-19-2009	BOOCK; Robert et al.	
	2307	US-20090287074	11-19-2009	SHULTS; Mark et al.	
	2308	US-20090299155	12-03-2009	YANG; Richard C. et al.	
	2309	US-20090299156	12-03-2009	SIMPSON; Peter C. et al.	
	2310	US-20090299162	12-03-2009	BRAUKER; James H. et al.	
	2311	US-20090299276	12-03-2009	BRAUKER; James H. et al.	
	2312	US-20090310743	12-17-2009	CARPENTER; Scott E. et al.	
	2313	US-20100010324	01-14-2010	BRAUKER; James H. et al.	
	2314	US-20100010330	01-14-2010	RANKERS; Ulrich et al.	
	2315	US-20100010331	01-14-2010	BRAUKER; James H. et al.	
	2316	US-20100010332	01-14-2010	BRAUKER; James H. et al.	
	2317	US-20100016687	01-21-2010	BRAUKER; James H. et al.	
	2318	US-20100016698	01-21-2010	RASDAL; Andrew et al.	
	2319	US-20100022855	01-28-2010	BRAUKER; James H. et al.	
	2320	US-20100030038	02-04-2010	BRAUKER; James H. et al.	
	2321	US-20100030053	02-04-2010	GOODE Jr.; Paul V. et al.	
	2322	US-20100030484	02-04-2010	BRAUKER; James H. et al.	
	2323	US-20100030485	02-04-2010	BRAUKER; James H. et al.	

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	2324	US-20100036215	02-11-2010	GOODE Jr.; Paul V. et al.	
	2325	US-20100036216	02-11-2010	GOODE Jr.; Paul V. et al.	
	2326	US-20100036222	02-11-2010	GOODE Jr.; Paul V. et al.	
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	2330	US-20100041971	02-18-2010	GOODE Jr.; Paul V. et al.	
	2331	US-20100045465	02-25-2010	BRAUKER; James H. et al.	
	2332	US-20100049024	02-25-2010	SAINT; Sean et al.	
	2333	US-20100063373	03-11-2010	KAMATH; Apurv Ullas et al.	
	2334	US-20100069728	03-18-2010	FUNDERBURK; Jeffery V. et al.	
	2335	US-20100076283	03-25-2010	SIMPSON; Peter C. et al.	
	2336	US-20100081908	04-01-2010	DOBBLES; J. Michael. et al.	
	2337	US-20100081910	04-01-2010	BRISTER; Mark et al.	
	2338	US-20100087721	04-08-2010	STAFFORD; Gary Ashley	
	2339	US-20100087724	04-08-2010	BRAUKER; James H. et al.	
	2340	US-20100096259	04-22-2010	ZHANG; Huashi et al.	
	2341	US-20100099970	04-22-2010	SHULTS; Mark C. et al.	
	2342	US-20100099971	04-22-2010	SHULTS; Mark C. et al.	
	2343	US-20100113897	05-06-2010	BRENNEMAN; Allen J. et al.	
	2344	US-20100119693	05-13-2010	TAPSAK; Mark A. et al.	

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Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	2345	US-20100121169	05-13-2010	PETISCE; James R. et al.	
	2346	US-20100161269	06-24-2010	KAMATH; Apurv Ullas et al.	
	2347	US-20100168543	07-01-2010	KAMATH; Apurv Ullas et al.	
	2348	US-20100168545	07-01-2010	KAMATH; Apurv Ullas et al.	
	2349	US-20100168546	07-01-2010	KAMATH; Apurv Ullas et al.	
	2350	US-20100174157	07-08-2010	BRISTER; Mark et al.	
	2351	US-20100174158	07-08-2010	KAMATH; Apurv Ullas et al.	
	2352	US-20100174163	07-08-2010	BRISTER; Mark et al.	
	2353	US-20100174164	07-08-2010	BRISTER; Mark et al.	
	2354	US-20100174165	07-08-2010	BRISTER; Mark et al.	
	2355	US-20100174166	07-08-2010	BRISTER; Mark et al.	
	2356	US-20100174167	07-08-2010	KAMATH; Apurv Ullas et al.	
	2357	US-20100174168	07-08-2010	GOODE Jr.; Paul V. et al.	
	2358	US-20100179399	07-15-2010	GOODE Jr.; Paul V. et al.	
	2359	US-20100179400	07-15-2010	BRAUKER; James H. et al.	
	2360	US-20100179401	07-15-2010	RASDAL; Andrew et al.	
	2361	US-20100179402	07-15-2010	GOODE Jr.; Paul V. et al.	
	2362	US-20100179404	07-15-2010	KAMATH; Apurv Ullas et al.	
	2363	US-20100179405	07-15-2010	GOODE Jr.; Paul V. et al.	
	2364	US-20100179406	07-15-2010	GOODE Jr.; Paul V. et al.	
	2365	US-20100179407	07-15-2010	GOODE Jr.; Paul V. et al.	
	2366	US-20100179408	07-15-2010	KAMATH; Apurv et al.	

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	2367	US-20100179409	07-15-2010	KAMATH; Apurv Ullas et al.	
	2368	US-20100185065	07-22-2010	GOODE Jr.; Paul V. et al.	
	2369	US-20100185069	07-22-2010	BRISTER; Mark et al.	
	2370	US-20100185070	07-22-2010	BRISTER; Mark et al.	
	2371	US-20100185071	07-22-2010	SIMPSON; Peter C. et al.	
	2372	US-20100185072	07-22-2010	GOODE Jr.; Paul V. et al.	
	2373	US-20100185073	07-22-2010	GOODE Jr.; Paul V. et al.	
	2374	US-20100185074	07-22-2010	GOODE Jr.; Paul V. et al.	
	2375	US-20100185075	07-22-2010	BRISTER; Mark et al.	
	2376	US-20100191082	07-29-2010	BRISTER; Mark et al.	
	2377	US-20100198035	08-05-2010	KAMATH; Apurv Ullas et al.	
	2378	US-20100204555	08-12-2010	SHULTS; Mark C. et al.	
	2379	US-20100212583	08-26-2010	BRISTER; Mark et al.	
	2380	US-20100214104	08-26-2010	GOODE Jr.; Paul V. et al.	
	2381	US-20100217106	08-26-2010	GOODE Jr.; Paul V. et al.	
	2382	US-20100217555	08-26-2010	KAMATH; Apurv Ullas et al.	
	2383	US-20100234707	09-16-2010	GOODE Jr.; Paul V. et al.	
	2384	US-20100234796	09-16-2010	KAMATH; Apurv U. et al.	
	2385	US-20100235106	09-16-2010	KAMATH; Apurv U. et al.	
	2386	US-20100240975	09-23-2010	GOODE Jr.; Paul V. et al.	
	2387	US-20100240976	09-23-2010	GOODE Jr.; Paul V. et al.	
	2388	US-20100256779	10-07-2010	BRAUKER; James H. et al.	

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	2389	US-20100286496	11-11-2010	SIMPSON; Peter C. et al.	
	2390	US-20100305869	12-02-2010	BRAUKER; James H. et al.	
	2391	US-20100331648	12-30-2010	KAMATH; Apurv Ullas et al.	
	2392	US-20100331655	12-30-2010	KAMATH; Apurv Ullas et al.	
	2393	US-20100331656	12-30-2010	MENSINGER; Michael Robert et al.	
	2394	US-20100331657	12-30-2010	MENSINGER; Michael Robert et al.	
	2395	US-20110009727	01-13-2011	MENSINGER; Michael Robert et al.	
	2396	US-20110027127	02-03-2011	SIMPSON; Peter C. et al.	
	2397	US-20110028815	02-03-2011	SIMPSON; Peter C. et al.	
	2398	US-20110028816	02-03-2011	SIMPSON; Peter C. et al.	
	2399	US-20110046467	02-24-2011	SIMPSON; Peter C. et al.	
	2400	US-20110087196	04-14-2011	HUNN; Marcel et al.	
	2401	US-20110118579	05-19-2011	GOODE Jr.; Paul V. et al.	
	2402	US-20110124992	05-26-2011	BRAUKER; James H. et al.	
	2403	US-20110124997	05-26-2011	GOODE Jr.; Paul V. et al.	
	2404	US-20110128052	06-02-2011	FUJIBE; Tasuku et al.	
	2405	US-20110130639	06-02-2011	FELDMAN; Benjamin J.	
	2406	US-20110130970	06-02-2011	GOODE Jr.; Paul V. et al.	
	2407	US-20110136249	06-09-2011	STIENE; Matthias	
	2408	US-20110137601	06-09-2011	GOODE Jr.; Paul V. et al.	

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	2410	US-20110178378	07-21-2011	BRISTER; Mark et al.	
	2411	US-20110190614	08-04-2011	BRISTER; Mark et al.	
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	2413	US-20110218414	09-08-2011	KAMATH; Apurv et al.	
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	2417	US-20110231142	09-22-2011	GOODE Jr.; Paul V. et al.	
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	2421	US-20110270158	11-03-2011	BRAUKER; James H. et al.	
	2422	US-20110290645	12-01-2011	BRISTER; Mark et al.	
	2423	US-20110313543	12-22-2011	BRAUKER; James H. et al.	
	2424	US-20110319739	12-29-2011	KAMATH; Apurv Ullas et al.	
	2425	US-20120130214	05-24-2012	BRISTER; Mark et al.	
	2426	US-20120172691	07-05-2012	BRAUKER; James H. et al.	
	2427	US-20120265042	10-18-2012	NEINAST; Mark et al.	
	2428	US-20120277562	11-01-2012	BRISTER; Mark et al.	
	2429	US-20120277566	11-01-2012	KAMATH; Apurv Ullas et al.	
	2430	US-20130012798	01-10-2013	BRISTER; Mark et al.	

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	2431	US-20130060112	03-07-2013	PRYOR; Jack et al.	
	2432	US-20130131478	05-23-2013	SIMPSON; Peter C. et al.	
	2433	US-20130255570	10-03-2013	BRISTER; Mark et al.	
	2434	US-20130267808	10-10-2013	BRISTER; Mark et al.	
	2435	US-20130281931	10-24-2013	HUNN; Marcel et al.	
	2436	US-20130296677	11-07-2013	PRYOR; Jack et al.	
	2437	US-20140128704	05-08-2014	SIMPSON; Peter C. et al.	
	2438	US-20140142405	05-22-2014	BRISTER; Mark et al.	
	2439	US-20140257065	09-11-2014	BRISTER; Mark et al.	
	2440	US-20140288402	09-25-2014	BRISTER; Mark et al.	
	2441	US-20160008029	01-14-2016	BRISTER; Mark C. et al.	
	2442	US-20160051173	02-25-2016	BRISTER; Mark C. et al.	
	2443	US-20160310051	10-27-2016	BRISTER; Mark C. et al.	
	2444	US-20170196491	07-13-2017	BRISTER; Mark C. et al.	
	2445	US-20170367627	12-28-2017	BRISTER; Mark C. et al.	
	2446	US-20180014762	01-18-2018	BRISTER; Mark C. et al.	
	2447	US-20180049682	02-22-2018	BRISTER; Mark C. et al.	
	2448	US-20180055423	03-01-2018	PRYOR; Jack et al.	
	2449	US-20180140236	05-24-2018	BRISTER; Mark C. et al.	
	2450	US-20180160949	06-14-2018	BRISTER; Mark et al.	
	2451	US-20180242894	08-30-2018	BRAUKER; James H. et al.	
	2452	US-20180303394	10-25-2018	BRAUKER; James H. et al.	

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	2453	US-20190015020	01-17-2019	BRISTER; Mark C. et al.	
	2454	US-20190069817	03-07-2019	BRISTER; Mark et al.	
	2455	US-20190076071	03-14-2019	BRISTER; Mark C. et al.	
	2456	US-20190320951	10-24-2019	PRYOR; Jack et al.	
	2457	US-20190320952	10-24-2019	PRYOR; Jack et al.	
	2458	US-20190320953	10-24-2019	PRYOR; Jack et al.	
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	2460	US-20190320955	10-24-2019	PRYOR; Jack et al.	
	2461	US-20190320956	10-24-2019	PRYOR; Jack et al.	
	2462	US-20190320957	10-24-2019	PRYOR; Jack et al.	
	2463	US-20190343436	11-14-2019	PRYOR; Jack	
	2464	US-20190350503	11-21-2019	JACK; Pryor	
	2465	US-20190350504	11-21-2019	JACK; Pryor	
	2466	US-20190357821	11-28-2019	BRISTER; Mark C. et al.	
	2467	US-20190357822	11-28-2019	JACK; Pryor	

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	001	CA-2127172-C	07-14-1998	BAYER AG [US]		☐

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	002	CN-101026994-A	08-29-2007	NOVO NORDISK AS [DK]		☐
	003	DE-10117285-A1	11-07-2002	DISETRONIC LICENSING AG [CH]		☐
	004	DE-20110059-U1	08-14-2002	DISETRONIC LICENSING AG [CH]		☐
	005	DE-2658734-A1	06-29-1978	DRAEGERWERK AG.		☐
	006	DE-3144459-A1	10-14-1982	HORIBA LTD [JP]		☐
	007	DE-3933373-C2	09-10-1992	HOELL THOMAS.		☐
	008	DE-4105222-A1	08-27-1992	SCHAEFER WIELAND DR SC [DE], et al.		☐
	009	DE-4401400-A1	07-20-1995	PFEIFFER ERNST PROF DR [DE]		☐
	010	EP-0098592-A2	01-18-1984	FUJISAWA PHARMACEUTICAL CO [JP]		☐
	011	EP-0107634-A2	05-02-1984	HELLGREN LARS GUSTAV INGE. et al.		☐

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	012	EP-0127958-A2	12-12-1984	GENETICS INT INC [US]		☐
	013	EP-0143517-A1	06-05-1985	RENAL SYSTEMS [US]		☐
	014	EP-0143517-B1	04-05-1989	MINNTECH CORPORATION.		☐
	015	EP-0191640-B2	11-15-1995	ABBOTT LAB [US]		☐
	016	EP-0262328-B1	01-27-1993	ABBOTT LAB [US]		☐
	017	EP-0264036-B1	06-30-1993	ABBOTT LAB [US]		☐
	018	EP-0275139-B1	04-15-1992	SYNTEX INC.		☐
	019	EP-0279069-B1	07-13-1994	ABBOTT LAB [US]		☐
	020	EP-0282349-A2	09-14-1988	MEDISENSE INC [US]		☐
	021	EP-0284518-A2	09-28-1988	FUJITSU LTD., et al.		☐

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	022	EP-0286039-A2	10-12-1988	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐
	023	EP-0286118-A2	10-12-1988	NOVA BIOMEDICAL CORP [US]		☐
	024	EP-0286118-B1	01-25-1995	NOVA BIOMEDICAL CORP [US]		☐
	025	EP-0288793-A2	11-02-1988	ABBOTT LAB [US]		☐
	026	EP-0314027-A1	05-03-1989	DRAEGERWERK AG [DE]		☐
	027	EP-0319277-A1	06-07-1989	PACESETTER INFUSION LTD [US]		☐
	028	EP-0319277-B1	03-31-1993	PACESETTER INFUSION LTD.		☐
	029	EP-0320109-A1	06-14-1989	MEDISENSE INC [US]		☐
	030	EP-0323605-B1	01-26-1994	ABBOTT LAB [US]		☐
	031	EP-0351891-B1	09-29-1993	MEDISENSE INC.		☐

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	033	EP-0352138-A2	01-24-1990	MEDISENSE INC [US]		☐
	034	EP-0352610-A2	01-31-1990	ABBOTT LAB [US]		☐
	035	EP-0352631-A2	01-31-1990	ABBOTT LAB [US]		☐
	036	EP-0352708-A2	01-31-1990	ABBOTT LAB [US]		☐
	037	EP-0353328-A1	02-07-1990	PPG HELLIGE BV [NL]		☐
	038	EP-0387696-B1	08-27-1997	ABBOTT LAB [US]		☐
	039	EP-0390390-A1	10-03-1990	ASS UNIVERSITIES INC [US], et al.		☐
	040	EP-0396788-A1	11-14-1990	DRAEGER NEDERLAND B V [NL]		☐
	041	EP-0406473-A1	01-09-1991	ABBOTT LAB [US]		☐

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	043	EP-0424633-B1	01-17-1996	ABBOTT LAB [US]		☐
	044	EP-0424634-B1	06-14-1995	ABBOTT LAB [US]		☐
	045	EP-0440044-A1	08-07-1991	ABBOTT LAB [US]		☐
	046	EP-0441252-A2	08-14-1991	ABBOTT LAB [US]		☐
	047	EP-0441394-A2	08-14-1991	MINNESOTA MINING & MFG [US]		☐
	048	EP-0457292-A2	11-21-1991	ABBOTT LAB [US]		☐
	049	EP-0467078-A2	01-22-1992	ABBOTT LAB [US]		☐
	050	EP-0470652-B1	12-18-1996	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐
	051	EP-0471391-A2	02-19-1992	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	052	EP-0473065-A2	03-04-1992	ABBOTT LAB [US]		☐
	053	EP-0476715-B1	12-18-1996	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐
	054	EP-0476980-A2	03-25-1992	FUJITSU LTD [JP]		☐
	055	EP-0477501-A2	04-01-1992	ABBOTT LAB [US]		☐
	056	EP-0478550-B1	01-25-1995	BRITISH TECH GROUP [GB]		☐
	057	EP-0494704-A3	09-02-1992	THE FLINDERS UNIVERSITY OF SOUTH AUSTRALIA.		☐
	058	EP-0494705-A3	09-02-1992	THE FLINDERS UNIVERSITY OF SOUTH AUSTRALIA.		☐
	059	EP-0508388-A1	10-14-1992	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐
	060	EP-0512122-A1	11-11-1992	TORAY INDUSTRIES [JP]		☐

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	061	EP-0520430-A2	12-30-1992	ROHM CO LTD [JP]		☐
	062	EP-0520443-A2	12-30-1992	PPG INDUSTRIES INC [US]		☐
	063	EP-0532187-B1	10-30-1996	BEHRINGWERKE AG [DE]		☐
	064	EP-0534074-A1	03-31-1993	INST DIABETESTECHNOLOGIE GEMEI [DE]		☐
	065	EP-0534074-B1	03-06-1996	INST DIABETESTECHNOLOGIE GEMEI [DE]		☐
	066	EP-0535898-A1	04-07-1993	LILLY CO ELI [US]		☐
	067	EP-0539625-A1	05-05-1993	DRAEGER MED ELECTRONICS BV [NL]		☐
	068	EP-0561966-B1	10-05-1994	TNO [NL]		☐
	069	EP-0563795-A1	10-06-1993	DAINIPPON PRINTING CO LTD [JP], et al.		☐

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	070	EP-0567725-A1	11-03-1993	UNIV CALIFORNIA [US]		☐
	071	EP-0587008-B1	02-10-1999	ABBOTT LAB [US]		☐
	072	EP-0593096-A3	12-03-1997	MEDISENSE INC [US]		☐
	073	EP-0595474-A3	07-13-1994	PACESETTER INFUSION LTD [DE]		☐
	074	EP-0647849-A2	04-12-1995	IGEN INC [US]		☐
	075	EP-0674176-B1	02-04-2004	IGEN INT INC [US]		☐
	076	EP-0677743-A2	10-18-1995	MINIMED INC [US]		☐
	077	EP-0678308-B1	05-24-2000	MINIMED INC [US]		☐
	078	EP-0690134-A1	01-03-1996	CIBA CORNING DIAGNOSTICS CORP [US]		☐
	079	EP-0709677-A2	05-01-1996	BOEHRINGER MANNHEIM GMBH [DE]		☐

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Attorney Docket Number	DEXCOM.053C22

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	080	EP-0747069-A2	12-11-1996	COOK INC [US]		☐
	081	EP-0776628-A2	06-04-1997	YOSHIDA AKITOSHI [JP]		☐
	082	EP-0777122-B1	04-10-2002	ELSAG INTERNAT N V [NL]		☐
	083	EP-0817809-A1	01-14-1998	MINIMED INC [US]		☐
	084	EP-0817809-B1	07-31-2002	MEDTRONIC MINIMED INC [US]		☐
	085	EP-0824900-B1	04-02-2003	ADVANCED CARDIOVASCULAR SYSTEM [US]		☐
	086	EP-0838230-A2	04-29-1998	TERUMO CORP [JP]		☐
	087	EP-0846776-B1	03-10-2004	VYSIS INC [US]		☐
	088	EP-0877252-B1	01-10-2007	BIOVERIS CORP [US]		☐
	089	EP-0880936-A2	12-02-1998	AKAI KOJI [JP]		☐

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	090	EP-0885932-A2	12-23-1998	OSI SPECIALTIES INC [US]		☐
	091	EP-0922959-B1	10-25-2006	ROCHE DIAGNOSTICS GMBH [DE]		☐
	092	EP-0958495-B1	11-13-2002	THERASENSE INC [US]		☐
	093	EP-0967788-A2	12-29-1999	HEWLETT PACKARD CO [US]		☐
	094	EP-0995805-A1	04-26-2000	BEURET PIERRE [CH]		☐
	095	EP-1028320-A3	03-14-2001	ABBOTT LAB [US]		☐
	096	EP-1048264-A1	11-02-2000	MEDTRONIC INC [US]		☐
	097	EP-1077634-A1	02-28-2001	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	098	EP-1077636-B1	01-21-2004	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	099	EP-1078258-A1	02-28-2001	CYGNUS THERAPEUTIC SYSTEMS [US]		☐

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	101	EP-1112717-A1	07-04-2001	ABBOTT LAB [US]		☐
	102	EP-1112718-A1	07-04-2001	ABBOTT LAB [US]		☐
	103	EP-1120084-A1	08-01-2001	ABBOTT LAB [US]		☐
	104	EP-1120085-A1	08-01-2001	ABBOTT LAB [US]		☐
	105	EP-1120650-A2	08-01-2001	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	106	EP-1130386-A1	09-05-2001	AU MEMBRANE & BIOTECH RES INST [AU], et al.		☐
	107	EP-1153571-A1	11-14-2001	MENARINI FARMA IND [IT]		☐
	108	EP-1234053-B1	04-18-2007	I STAT CORP [US]		☐
	109	EP-1251137-A2	10-23-2002	GENENTECH INC [US], et al.		☐

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	111	EP-1266607-A2	12-18-2002	LIFESCAN INC [US]		☐
	112	EP-1281351-A2	02-05-2003	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	113	EP-1286164-B1	07-25-2007	BIOVERIS CORP [US]		☐
	114	EP-1340980-A1	09-03-2003	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	115	EP-1340981-A2	09-03-2003	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	116	EP-1391728-A1	02-25-2004	LIFESCAN INC [US]		☐
	117	EP-1413245-A2	04-28-2004	MEDTRONIC MINIMED INC [US]		☐
	118	EP-1430831-A1	06-23-2004	LIFESCAN INC [US]		☐
	119	EP-1457913-B1	12-17-2008	ABBOTT LAB [US]		☐

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Attorney Docket Number	DEXCOM.053C22

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Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	120	EP-1498067-A1	01-19-2005	MATSUSHITA ELECTRIC IND CO LTD [JP]		☐
	121	EP-1498428-A1	01-19-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	122	EP-1582874-B1	07-09-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	123	EP-1612560-B1	10-31-2007	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	124	EP-1614464-A1	01-11-2006	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	125	EP-1717924-A2	11-02-2006	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	126	EP-1798542-A1	06-20-2007	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	127	EP-1804650-A1	07-11-2007	DEXCOM INC [US]		☐
	128	EP-1905514-A1	04-02-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	129	EP-1977829-A1	10-08-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	130	EP-1982644-A1	10-22-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	131	EP-2223710-A1	09-01-2010	DEXCOM INC [US]		☐
	132	EP-2226086-A1	09-08-2010	DEXCOM INC [US]		☐
	133	EP-2228642-A1	09-15-2010	DEXCOM INC [US]		☐
	134	EP-2236077-A1	10-06-2010	SENSILE PAT AG [CH]		☐
	135	EP-2327362-A1	06-01-2011	DEXCOM INC [US]		☐
	136	EP-2329770-B1	09-10-2014	DEXCOM INC [US]		☐
	137	EP-2335584-B1	06-17-2015	DEXCOM INC [US]		☐
	138	EP-2407094-B1	10-22-2014	DEXCOM INC [US]		☐
	139	FR-2656423-A1	06-28-1991	RHONE POULENC CHIMIE [FR]		☐

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	140	FR-2760962-A1	09-25-1998	KLEFSTAD SILLONVILLE FRANCIS [FR]		☐
	141	GB-1442303-A	07-14-1976	RADIOMETER AS.		☐
	142	GB-1556969-A	12-05-1979	DRAEGERWERK AG.		☐
	143	GB-2149918-A	06-19-1985	ANDERSON JOHN.		☐
	144	GB-2230865-A	10-31-1990	NAT RES DEV [GB]		☐
	145	JP-2000060826-A	02-29-2000	OMRON TATEISI ELECTRONICS CO.		☐
	146	JP-2000149072-A	05-30-2000	NIPPON SIGNAL CO LTD.		☐
	147	JP-2002189015-A	07-05-2002	SANKYO CO.		☐
	148	JP-2002513602-A	05-14-2002	HELLER E & CO.		☐
	149	JP-2003108679-A	04-11-2003	TOSHIBA CORP.		☐

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	150	JP-2003297163-A	10-17-2003	HITACHI CABLE.		☐
	151	JP-H022913-A	01-08-1990	BRIDGESTONE CORP.		☐
	152	JP-H03293556-A	12-25-1991	KOKURITSU SHINTAI SHIYOUGAISHI.		☐
	153	JP-H06288853-A	10-18-1994	TOSHIBA CORP.		☐
	154	JP-H06307898-A	11-04-1994	NIPPON STEEL CORP.		☐
	155	JP-H0783871-A	03-31-1995	MATSUSHITA ELECTRIC IND CO LTD.		☐
	156	JP-H11258381-A	09-24-1999	MITSUBISHI HEAVY IND LTD.		☐
	157	JP-S5441190-A	04-02-1979	OMRON TATEISI ELECTRONICS CO.		☐
	158	JP-S57156004-A	09-27-1982	NITTO ELECTRIC IND CO.		☐
	159	JP-S58124912-A	07-25-1983	MITSUBISHI HEAVY IND LTD.		☐

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	160	JP-S59211459-A	11-30-1984	TEIJIN LTD.		☐
	161	JP-S61271418-A	12-01-1986	FUJI ELECTRIC CO LTD., et al.		☐
	162	JP-S6283649-A	04-17-1987	MATSUSHITA ELECTRIC IND CO LTD.		☐
	163	JP-S6283849-A	04-17-1987	YOSHINAKA REIJI., et al.		☐
	164	WO-0007013-A2	02-10-2000	ABBOTT LAB [US]		☐
	165	WO-0012720-A2	03-09-2000	ABBOTT LAB [US]		☐
	166	WO-0013002-A2	03-09-2000	ABBOTT LAB [US]		☐
	167	WO-0013003-A1	03-09-2000	SENSORS FOR MED & SCIENCE INC [US]		☐
	168	WO-0018449-A2	04-06-2000	MINIMED INC [US]		☐
	169	WO-0019887-A1	04-13-2000	MINIMED INC [US]		☐

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	171	WO-0030530-A1	06-02-2000	ABBOTT LAB [US]		☐
	172	WO-0032098-A1	06-08-2000	HEALTH HERO NETWORK INC [US]		☐
	173	WO-0033065-A1	06-08-2000	LOCKHEED MARTIN ENERGY RES COR [US], et al.		☐
	174	WO-0035530-A1	06-22-2000	MINIMED INC [US]		☐
	175	WO-0045696-A1	08-10-2000	MINIMED INC [US]		☐
	176	WO-0049940-A2	08-31-2000	MINIMED INC [US]		☐
	177	WO-0049941-A1	08-31-2000	MINIMED INC [US]		☐
	178	WO-0049942-A2	08-31-2000	MINIMED INC [US]		☐
	179	WO-0059370-A1	10-12-2000	UNIV CAMBRIDGE TECH [GB], et al.		☐

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	180	WO-0059373-A1	10-12-2000	SPECTRX INC [US], et al.		☐
	181	WO-0074753-A1	12-14-2000	MINIMED INC [US]		☐
	182	WO-0078210-A1	12-28-2000	MINIMED INC [US]		☐
	183	WO-0078992-A2	12-28-2000	THERASENSE INC [US]		☐
	184	WO-0079258-A1	12-28-2000	ABBOTT LAB [US], et al.		☐
	185	WO-0100865-A2	01-04-2001	DREW SCIENT LTD [GB], et al.		☐
	186	WO-0109096-A2	02-08-2001	ABBOTT LAB [US]		☐
	187	WO-0112158-A1	02-22-2001	UNIV JEFFERSON [US], et al.		☐
	188	WO-0116579-A1	03-08-2001	CME TELEMETRIX INC [CA], et al.		☐
	189	WO-0120019-A2	03-22-2001	IMPLANTED BIOSYSTEMS INC [US]		☐

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	191	WO-0121827-A1	03-29-2001	ROCHE DIAGNOSTICS CORP [US], et al.		☐
	192	WO-0134243-A1	05-17-2001	ST JUDE MEDICAL [SE], et al.		☐
	193	WO-0136666-A1	05-25-2001	I STAT CORP [US]		☐
	194	WO-0143660-A2	06-21-2001	BAXTER INT [US]		☐
	195	WO-0152727-A1	07-26-2001	MINIMED INC [US]		☐
	196	WO-0152935-A1	07-26-2001	MEDICAL RES GROUP INC [US]		☐
	197	WO-0154753-A2	08-02-2001	MEDICAL RES GROUP INC [US]		☐
	198	WO-0158347-A1	08-16-2001	MASIMO CORP [US]		☐
	199	WO-0158348-A2	08-16-2001	MINIMED INC [US]		☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	200	WO-0159425-A1	08-16-2001	I STAT CORP [US], et al.		☐
	201	WO-0164105-A1	09-07-2001	INVERNESS MEDICAL TECHNOLOGY I [US], et al.		☐
	202	WO-0168901-A2	09-20-2001	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	203	WO-0169222-A2	09-20-2001	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	204	WO-0173109-A2	10-04-2001	INVERNESS MEDICAL TECHNOLOGY I [US], et al.		☐
	205	WO-0188524-A1	11-22-2001	THERASENSE INC [US]		☐
	206	WO-0188534-A2	11-22-2001	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	207	WO-0191634-A2	12-06-2001	ABBOTT LAB [US]		☐
	208	WO-0202755-A2	01-10-2002	BAYER AG [DE], et al.		☐

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Attorney Docket Number	DEXCOM.053C22

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	209	WO-02056751-A2	07-25-2002	ROCHE DIAGNOSTICS CORP [US], et al.		☐
	210	WO-0205702-A2	01-24-2002	HEALTHETECH INC [US], et al.		☐
	211	WO-02058537-A2	08-01-2002	THERASENSE INC [US]		☐
	212	WO-02062210-A1	08-15-2002	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	213	WO-02066509-A2	08-29-2002	GENENTECH INC [US]		☐
	214	WO-02066986-A2	08-29-2002	MEDTRONIC MINIMED INC [US]		☐
	215	WO-02074161-A2	09-26-2002	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	216	WO-0207596-A1	01-31-2002	MEDTRONIC INC [US]		☐
	217	WO-0207617-A2	01-31-2002	VERIMETRA INC [US]		☐
	218	WO-02082989-A1	10-24-2002	ABBOTT LAB [US]		☐

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Attorney Docket Number	DEXCOM.053C22

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	219	WO-02087681-A2	11-07-2002	MEDTRONIC INC [US]		☐
	220	WO-02089666-A2	11-14-2002	ISENSE CORP [US], et al.		☐
	221	WO-02097414-A2	12-05-2002	INSTRUMENTATION LAB CO [US]		☐
	222	WO-02099097-A1	12-12-2002	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	223	WO-02099428-A1	12-12-2002	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	224	WO-02100266-A1	12-19-2002	MATHEWS EDWARD HENRY [ZA], et al.		☐
	225	WO-02100457-A2	12-19-2002	MEDTRONIC MINIMED INC [US]		☐
	226	WO-02100474-A2	12-19-2002	ABBOTT LAB [US]		☐
	227	WO-0216535-A2	02-28-2002	PROCTER & GAMBLE [US]		☐
	228	WO-0216905-A2	02-28-2002	EURO CELTIQUE SA [LU], et al.		☐

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Attorney Docket Number	DEXCOM.053C22

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	229	WO-0217780-A1	03-07-2002	NELLCOR PURITAN BENNETT INC [US]		☐
	230	WO-0224065-A1	03-28-2002	KNOBBE LIM & BUCKINGHAM [US]		☐
	231	WO-0233407-A1	04-25-2002	ABBOTT LAB [US]		☐
	232	WO-0243585-A1	06-06-2002	OPTISCAN BIOMEDICAL CORP [US]		☐
	233	WO-03000127-A2	01-03-2003	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	234	WO-03008013-A2	01-30-2003	MEDICAL RES GROUP [US], et al.		☐
	235	WO-03008014-A2	01-30-2003	MEDICAL RES GROUP [US], et al.		☐
	236	WO-03009207-A1	01-30-2003	MEDICAL RES GROUP [US], et al.		☐
	237	WO-03009208-A1	01-30-2003	MEDICAL RES GROUP [US], et al.		☐
	238	WO-03011131-A2	02-13-2003	DEXCOM INC [US], et al.		☐

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Attorney Docket Number	DEXCOM.053C22

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	239	WO-03012422-A1	02-13-2003	NOVA BIOMEDICAL CORP [US]		☐
	240	WO-03022327-A2	03-20-2003	MEDTRONIC MINIMED INC [US]		☐
	241	WO-03028797-A1	04-10-2003	HEWLETT PACKARD CO [US]		☐
	242	WO-03032411-A2	04-17-2003	LIFESCAN INC [US], et al.		☐
	243	WO-03033726-A1	04-24-2003	DREW SCIENT LTD [GB], et al.		☐
	244	WO-03035117-A1	05-01-2003	MEDTRONIC MINIMED INC [US]		☐
	245	WO-03036310-A1	05-01-2003	MEDTRONIC MINIMED INC [US]		☐
	246	WO-03044511-A2	05-30-2003	ROCHE DIAGNOSTIC CORP [US], et al.		☐
	247	WO-03053498-A2	07-03-2003	MEDTRONIC MINIMED INC [US]		☐
	248	WO-03057028-A2	07-17-2003	MEDTRONIC MINIMED INC [US]		☐

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	249	WO-03063700-A1	08-07-2003	SICEL TECHNOLOGIES INC [US], et al.		☐
	250	WO-03072164-A2	09-04-2003	SPECTRX INC [US], et al.		☐
	251	WO-03072269-A1	09-04-2003	SONO TEK CORP [US]		☐
	252	WO-03076893-A2	09-18-2003	SENSYS MEDICAL INC [US]		☐
	253	WO-03076937-A2	09-18-2003	I STAT CORP [US], et al.		☐
	254	WO-03082091-A2	10-09-2003	INVERNESS MEDICAL LTD [GB], et al.		☐
	255	WO-03085372-A2	10-16-2003	THERASENSE INC [US]		☐
	256	WO-03088832-A1	10-30-2003	MEDTRONIC INC [US]		☐
	257	WO-03094714-A1	11-20-2003	MEDTRONIC MINIMED INC [US]		☐
	258	WO-03097866-A1	11-27-2003	INFOPIA CO LTD [KR], et al.		☐

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	259	WO-03101862-A1	12-11-2003	DOW CORNING TORAY SILICONE [JP], et al.		☐
	260	WO-03106031-A1	12-24-2003	HOFFMANN LA ROCHE [CH], et al.		☐
	261	WO-03106966-A2	12-24-2003	THERASENSE INC [US]		☐
	262	WO-2004004905-A2	01-15-2004	ABBOTT LAB [US]		☐
	263	WO-2004010844-A2	02-05-2004	CAS MEDICAL SYSTEMS INC [US]		☐
	264	WO-2004030726-A1	04-15-2004	NOVO NORDISK AS [DK]		☐
	265	WO-2004036183-A2	04-29-2004	MEDTRONIC MINIMED INC [US]		☐
	266	WO-2004039265-A2	05-13-2004	MEDTRONIC INC [US]		☐
	267	WO-2004052190-A1	06-24-2004	KONINKL PHILIPS ELECTRONICS NV [NL], et al.		☐
	268	WO-2004060455-A1	07-22-2004	MEDTRONIC MINIMED INC [US]		☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	269	WO-2004061420-A2	07-22-2004	THERASENSE INC [US], et al.		☐
	270	WO-2004063718-A2	07-29-2004	ISENSE DEV CORP [US], et al.		☐
	271	WO-2004071291-A2	08-26-2004	MEDTRONIC INC [US], et al.		☐
	272	WO-2004073138-A1	08-26-2004	MEDTRONIC INC [US], et al.		☐
	273	WO-2004086970-A1	10-14-2004	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	274	WO-2004098685-A1	11-18-2004	NOVO NORDISK AS [DK], et al.		☐
	275	WO-2004105641-A2	12-09-2004	DEXCOM INC [US], et al.		☐
	276	WO-2004110256-A2	12-23-2004	THERASENSE INC [US]		☐
	277	WO-2004113901-A1	12-29-2004	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	278	WO-2005011489-A1	02-10-2005	DEXCOM INC [US], et al.		☐

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	279	WO-2005012873-A2	02-10-2005	DEXCOM INC [US], et al.		☐
	280	WO-2005013824-A1	02-17-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	281	WO-2005018443-A1	03-03-2005	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	282	WO-2005026178-A2	03-24-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	283	WO-2005026689-A2	03-24-2005	I STAT CORP [US], et al.		☐
	284	WO-2005026689-A9	10-13-2005	I STAT CORP [US], et al.		☐
	285	WO-2005026690-A2	03-24-2005	I STAT CORP [US], et al.		☐
	286	WO-2005032362-A2	04-14-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	287	WO-2005032400-A2	04-14-2005	NICAST LTD [IL], et al.		☐
	288	WO-2005041766-A1	05-12-2005	THERASENSE INC [US], et al.		☐

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	289	WO-2005048834-A1	06-02-2005	MEDTRONIC MINIMED INC [US], et al.		☐
	290	WO-2005051440-A1	06-09-2005	KIM TCAK-YOUNG [KR]		☐
	291	WO-2005057168-A2	06-23-2005	DEXCOM INC [US], et al.		☐
	292	WO-2005057173-A2	06-23-2005	DEXCOM INC [US], et al.		☐
	293	WO-2005057175-A2	06-23-2005	DEXCOM INC [US], et al.		☐
	294	WO-2005063115-A1	07-14-2005	HADVARY PAUL [CH], et al.		☐
	295	WO-2005065542-A2	07-21-2005	MEDTRONIC MINIMED INC [US], et al.		☐
	296	WO-2005067797-A1	07-28-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	297	WO-2005070287-A1	08-04-2005	DISETRONIC LICENSING AG [CH], et al.		☐
	298	WO-2005074811-A1	08-18-2005	ABBOTT LAB [US], et al.		☐

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	299	WO-2005078424-A1	08-25-2005	THERASENSE INC [US], et al.		☐
	300	WO-2005084530-A2	09-15-2005	HOFFMANN LA ROCHE [CH], et al.		☐
	301	WO-2005084545-A1	09-15-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	302	WO-2005084546-A2	09-15-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	303	WO-2005089103-A2	09-29-2005	THERASENSE INC [US]		☐
	304	WO-2005094714-A1	10-13-2005	3M ESPE AG [DE], et al.		☐
	305	WO-2005098431-A1	10-20-2005	EGOMEDICAL SWISS AG [CH], et al.		☐
	306	WO-2005107594-A2	11-17-2005	ABBOTT LAB [US], et al.		☐
	307	WO-2005114218-A2	12-01-2005	GENENTECH INC [US], et al.		☐
	308	WO-2005119238-A1	12-15-2005	LEE JIN PO [US]		☐

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	309	WO-2005121355-A1	12-22-2005	MEDTRONIC MINIMED INC [US], et al.		☐
	310	WO-2005121785-A2	12-22-2005	MEDTRONIC MINIMED INC [US], et al.		☐
	311	WO-2005122296-A2	12-22-2005	UNIV SURREY [GB], et al.		☐
	312	WO-2006001929-A1	01-05-2006	MEDTRONIC MINIMED INC [US]		☐
	313	WO-2006001973-A2	01-05-2006	ABBOTT LAB [US], et al.		☐
	314	WO-2006002960-A1	01-12-2006	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	315	WO-2006005503-A1	01-19-2006	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	316	WO-2006010533-A2	02-02-2006	HOFFMANN LA ROCHE [CH], et al.		☐
	317	WO-2006015922-A1	02-16-2006	NOVO NORDISK AS [DK], et al.		☐
	318	WO-2006017358-A1	02-16-2006	DEXCOM INC [US], et al.		☐

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	321	WO-2006021430-A2	03-02-2006	DISETRONIC LICENSING AG [CH], et al.		☐
	322	WO-2006023241-A9	10-23-2008	ABBOTT LAB [US], et al.		☐
	323	WO-2006024671-A1	03-09-2006	NOVO NORDISK AS [DK], et al.		☐
	324	WO-2006029293-A1	03-16-2006	MEDTRONIC MINIMED INC [US], et al.		☐
	325	WO-2006050405-A1	05-11-2006	MEDTRONIC INC [US], et al.		☐
	326	WO-2006050843-A1	05-18-2006	HOFFMANN LA ROCHE [CH], et al.		☐
	327	WO-2006060806-A2	06-08-2006	MEDTRONIC INC [US], et al.		☐
	328	WO-2006071770-A2	07-06-2006	I STAT CORP [US], et al.		☐

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	330	WO-2006076412-A1	07-20-2006	MEDTRONIC MINIMED INC [US], et al.		☐
	331	WO-2006079114-A2	07-27-2006	ABBOTT DIABETES CARE INC [US]		☐
	332	WO-2006088576-A2	08-24-2006	MEDTRONIC MINIMED INC [US], et al.		☐
	333	WO-2006098887-A2	09-21-2006	GENENTECH INC [US], et al.		☐
	334	WO-2006099151-A2	09-21-2006	DEXCOM INC [US], et al.		☐
	335	WO-2006102359-A2	09-28-2006	ABBOTT LAB [US], et al.		☐
	336	WO-2006102412-A2	09-28-2006	ABBOTT DIABETES CARE INC [US]		☐
	337	WO-2006104843-A1	10-05-2006	MEDTRONIC INC [US], et al.		☐
	338	WO-2006105146-A2	10-05-2006	ARKAL MEDICAL INC [US], et al.		☐

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	342	WO-2006122048-A1	11-16-2006	MEDTRONIC MINIMED INC [US]		☐
	343	WO-2006122553-A1	11-23-2006	RADIOMETER MEDICAL APS [DK]		☐
	344	WO-2006124759-A2	11-23-2006	ISENSE CORP [US], et al.		☐
	345	WO-2006130268-A1	12-07-2006	MEDTRONIC INC [US], et al.		☐
	346	WO-2006131288-A1	12-14-2006	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	347	WO-2006132884-A2	12-14-2006	ABBOTT DIABETES CARE INC [US]		☐
	348	WO-2006133171-A2	12-14-2006	ABBOTT LAB [US], et al.		☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

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	349	WO-2007002209-A2	01-04-2007	GLUCON INC [US], et al.		☐
	350	WO-2007002579-A2	01-04-2007	BIOVERIS CORP [US], et al.		☐
	351	WO-2007005170-A2	01-11-2007	MEDTRONIC MINIMED INC [US]		☐
	352	WO-2007006454-A1	01-18-2007	HOFFMANN LA ROCHE [CH], et al.		☐
	353	WO-2007009911-A1	01-25-2007	HOFFMANN LA ROCHE [CH], et al.		☐
	354	WO-2007011587-A2	01-25-2007	I STAT CORP [US], et al.		☐
	355	WO-2007016399-A2	02-08-2007	ABBOTT DIABETES CARE INC [US]		☐
	356	WO-2007021892-A1	02-22-2007	MEDTRONIC MINIMED INC [US]		☐
	357	WO-2007021894-A2	02-22-2007	MEDTRONIC MINIMED INC [US]		☐
	358	WO-2007025088-A2	03-01-2007	MEDTRONIC MINIMED INC [US]		☐

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	359	WO-2007027788-A2	03-08-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	360	WO-2007028138-A2	03-08-2007	ISENSE CORP [US], et al.		☐
	361	WO-2007028271-A2	03-15-2007	HOFFMANN LA ROCHE [CH], et al.		☐
	362	WO-2007033010-A1	03-22-2007	MEDTRONIC MINIMED INC [US]		☐
	363	WO-2007037970-A1	04-05-2007	MEDTRONIC MINIMED INC [US]		☐
	364	WO-2007037989-A2	04-05-2007	MEDTRONIC MINIMED INC [US]		☐
	365	WO-2007040559-A2	04-12-2007	BIOVERIS [US], et al.		☐
	366	WO-2007041069-A2	04-12-2007	ABBOTT DIABETES CARE INC [US]		☐
	367	WO-2007041070-A2	04-12-2007	ABBOTT DIABETES CARE INC [US]		☐
	368	WO-2007041072-A2	04-12-2007	ABBOTT DIABETES CARE INC [US]		☐

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Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	369	WO-2007041248-A2	04-12-2007	ABBOTT DIABETES CARE INC [US]		☐
	370	WO-2007053832-A2	05-10-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	371	WO-2007053832-A3	12-06-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	372	WO-2007056638-A2	05-18-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	373	WO-2007058921-A2	05-24-2007	ISENSE CORP [US], et al.		☐
	374	WO-2007059476-A2	05-24-2007	LUMINOUS MEDICAL INC [US], et al.		☐
	375	WO-2007059478-A1	05-24-2007	NIKE INT [US], et al.		☐
	376	WO-2007061992-A2	05-31-2007	ISENSE CORP [US], et al.		☐
	377	WO-2007065285-A2	06-14-2007	HOFFMANN LA ROCHE [CH], et al.		☐
	378	WO-2007070486-A2	06-21-2007	MEDTRONIC MINIMED INC [US], et al.		☐

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Application Number	16690977
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	379	WO-2007076303-A1	07-05-2007	MEDTRONIC INC [US], et al.		☐
	380	WO-2007079015-A2	07-12-2007	MEDTRONIC MINIMED INC [US]		☐
	381	WO-2007079025-A2	07-12-2007	MEDTRONIC MINIMED INC [US]		☐
	382	WO-2007081811-A2	07-19-2007	UNIV PENNSYLVANIA [US], et al.		☐
	383	WO-2007090037-A2	08-09-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	384	WO-2007097754-A1	08-30-2007	DEXCOM INC [US], et al.		☐
	385	WO-2007101223-A2	09-07-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	386	WO-2007101260-A2	09-07-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	387	WO-2007109372-A2	09-27-2007	ABBOTT CARDIOVASCULAR SYSTEMS [US], et al.		☐

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	388	WO-2007111885-A2	10-04-2007	ABBOTT CARDIOVASCULAR SYSTEMS [US], et al.		☐
	389	WO-2007112006-A2	10-04-2007	ABBOTT CARDIOVASCULAR SYSTEMS [US], et al.		☐
	390	WO-2007114943-A2	10-11-2007	MEDTRONIC MINIMED INC [US], et al.		☐
	391	WO-2007115094-A2	10-11-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	392	WO-2007120363-A2	10-25-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	393	WO-2007120552-A2	10-25-2007	BAYER HEALTHCARE LLC [US], et al.		☐
	394	WO-2007126444-A2	11-08-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	395	WO-2007127606-A1	11-08-2007	MEDTRONIC INC [US], et al.		☐
	396	WO-2007127622-A2	11-08-2007	MEDTRONIC INC [US], et al.		☐

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	398	WO-2007127880-A2	11-08-2007	MEDTRONIC MINIMED INC [US], et al.		☐
	399	WO-2007130239-A1	11-15-2007	MEDTRONIC INC [US], et al.		☐
	400	WO-2007137286-A2	11-29-2007	GLUCON INC [US], et al.		☐
	401	WO-2007143225-A2	12-13-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	402	WO-2008001091-A1	01-03-2008	GLYSURE LTD [GB], et al.		☐
	403	WO-2008003003-A2	01-03-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	404	WO-2008005780-A2	01-10-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	405	WO-2008013849-A2	01-31-2008	MEDTRONIC MINIMED INC [US], et al.		☐
	406	WO-2008016486-A2	02-07-2008	MEDTRONIC MINIMED INC [US]		☐

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	408	WO-2008022021-A2	02-21-2008	MEDTRONIC INC [US], et al.		☐
	409	WO-2008028644-A1	03-13-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	410	WO-2008031106-A2	03-13-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	411	WO-2008031110-A2	03-13-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	412	WO-2008037485-A1	04-03-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	413	WO-2008039944-A2	04-03-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	414	WO-2008039946-A2	04-03-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	415	WO-2008039949-A2	04-03-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	416	WO-2008042760-A2	04-10-2008	ABBOTT DIABETES CARE INC [US], et al.		☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	417	WO-2008048709-A1	04-24-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	418	WO-2008051407-A2	05-02-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	419	WO-2008051924-A2	05-02-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	420	WO-2008052199-A2	05-02-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	421	WO-2008055037-A2	05-08-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	422	WO-2008055128-A1	05-08-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	423	WO-2008055199-A1	05-08-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	424	WO-2008067314-A2	06-05-2008	MEDTRONIC MINIMED INC [US], et al.		☐
	425	WO-2008069931-A1	06-12-2008	MEDTRONIC MINIMED INC [US]		☐
	426	WO-2008069932-A1	06-12-2008	MEDTRONIC MINIMED INC [US]		☐

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	427	WO-2008073813-A1	06-19-2008	ISENSE CORP [US], et al.		☐
	428	WO-2008076868-A2	06-26-2008	ABBOTT LAB [US], et al.		☐
	429	WO-2008079616-A1	07-03-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	430	WO-2008080591-A1	07-10-2008	DISETRONIC LICENSING AG [CH], et al.		☐
	431	WO-2008083379-A1	07-10-2008	ISENSE CORP [US], et al.		☐
	432	WO-2008088490-A1	07-24-2008	MEDTRONIC MINIMED INC [US]		☐
	433	WO-2008094249-A1	08-07-2008	MEDTRONIC MINIMED INC [US]		☐
	434	WO-2008101211-A2	08-21-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	435	WO-2008101217-A2	08-21-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	436	WO-2008103620-A2	08-28-2008	ABBOTT DIABETES CARE INC [US], et al.		☐

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Attorney Docket Number	DEXCOM.053C22

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	437	WO-2008116329-A1	10-02-2008	HOFFMANN LA ROCHE [CH], et al.		☐
	438	WO-2008118257-A1	10-02-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	439	WO-2008119470-A1	10-09-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	440	WO-2008124597-A1	10-16-2008	ISENSE CORP., et al.		☐
	441	WO-2008134441-A1	11-06-2008	ISENSE CORP [US], et al.		☐
	442	WO-2008135453-A1	11-13-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	443	WO-2008137405-A1	11-13-2008	HOFFMANN LA ROCHE [CH], et al.		☐
	444	WO-2008138006-A2	11-13-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	445	WO-2008150280-A1	12-11-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	446	WO-2008150917-A1	12-11-2008	ABBOTT DIABETES CARE INC [US], et al.		☐

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Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	447	WO-2008150946-A1	12-11-2008	ABBOTT LAB [US], et al.		☐
	448	WO-2008150949-A1	12-11-2008	ABBOTT LAB [US], et al.		☐
	449	WO-2009006139-A2	01-08-2009	ELECTROLUX HOME PROD INC [US], et al.		☐
	450	WO-2009105709-A1	08-27-2009	DEXCOM INC [US], et al.		☐
	451	WO-8103614-A1	12-24-1981	AMERICAN HOSPITAL SUPPLY CORP [US]		☐
	452	WO-8706342-A1	10-22-1987	MARKWELL MEDICAL INST INC [US]		☐
	453	WO-8706706-A1	11-05-1987	IGEN INC [US]		☐
	454	WO-8808137-A1	10-20-1988	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐
	455	WO-8902720-A1	04-06-1989	GRONINGEN SCIENCE PARK [NL]		☐
	456	WO-8904302-A1	05-18-1989	IGEN INC [US]		☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	457	WO-8907263-A1	08-10-1989	I STAT CORP [US]		☐
	458	WO-9000738-A1	01-25-1990	MARKWELL MEDICAL INST INC [US]		☐
	459	WO-9002938-A1	03-22-1990	I STAT CORP [US]		☐
	460	WO-9005296-A1	05-17-1990	IGEN INC [US]		☐
	461	WO-9005301-A1	05-17-1990	IGEN INC [US]		☐
	462	WO-9005302-A1	05-17-1990	IGEN INC [US]		☐
	463	WO-9005910-A1	05-31-1990	I STAT CORP [US]		☐
	464	WO-9007525-A1	07-12-1990	UNIV CALIFORNIA [US]		☐
	465	WO-9007575-A1	07-12-1990	ANDERSON DAVID M [US]		☐
	466	WO-9010716-A1	09-20-1990	GENE TRAK SYSTEMS [US]		☐

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	467	WO-9010861-A1	09-20-1990	NOVO NORDISK AS [DK]		☐
	468	WO-9013021-A1	11-01-1990	NAT RES DEV [GB]		☐
	469	WO-9109302-A1	06-27-1991	UNIV CALIFORNIA [US]		☐
	470	WO-9115993-A1	10-31-1991	UNIV KANSAS [US], et al.		☐
	471	WO-9116416-A1	10-31-1991	MARKWELL MEDICAL INST INC [US]		☐
	472	WO-9117259-A1	11-14-1991	SECR DEFENCE BRIT [GB]		☐
	473	WO-9201315-A1	01-23-1992	BOEHRINGER MANNHEIM CORP [US]		☐
	474	WO-9201928-A1	02-06-1992	I STAT CORP [US]		☐
	475	WO-9207525-A1	05-14-1992	BAXTER INT [US]		☐
	476	WO-9208985-A2	05-29-1992	GENENTECH INC [US]		☐

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	478	WO-9212255-A1	07-23-1992	ABBOTT LAB [US]		☐
	479	WO-9213271-A1	08-06-1992	MARKWELL MEDICAL INST INC [US]		☐
	480	WO-9214138-A1	08-20-1992	IGEN INC [US], et al.		☐
	481	WO-9214139-A1	08-20-1992	IGEN INC [US]		☐
	482	WO-9218887-A1	10-29-1992	ABBOTT LAB [US]		☐
	483	WO-9221772-A1	12-10-1992	ABBOTT LAB [US]		☐
	484	WO-9301308-A1	01-21-1993	IGEN INC [US]		☐
	485	WO-9302703-A1	02-18-1993	IGEN INC [US]		☐
	486	WO-9303362-A1	02-18-1993	ABBOTT LAB [US]		☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

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	487	WO-9305701-A1	04-01-1993	IMPERIAL COLLEGE [GB]		☐
	488	WO-9312256-A1	06-24-1993	IGEN INC [US]		☐
	489	WO-9313048-A1	07-08-1993	ABBOTT LAB [US]		☐
	490	WO-9313408-A1	07-08-1993	ABBOTT LAB [US]		☐
	491	WO-9314185-A1	07-22-1993	ANDCARE INC [US]		☐
	492	WO-9314693-A1	08-05-1993	UNIV MANCHESTER [GB]		☐
	493	WO-9319370-A1	09-30-1993	ABBOTT LAB [US]		☐
	494	WO-9319701-A1	10-14-1993	BAXTER INT [US]		☐
	495	WO-9320240-A1	10-14-1993	ABBOTT LAB [US]		☐
	496	WO-9320440-A1	10-14-1993	ABBOTT LAB [US]		☐

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	497	WO-9320441-A1	10-14-1993	ABBOTT LAB [US]		☐
	498	WO-9320443-A1	10-14-1993	ABBOTT LAB [US]		☐
	499	WO-9320444-A1	10-14-1993	ABBOTT LAB [US]		☐
	500	WO-9320450-A1	10-14-1993	ABBOTT LAB [US]		☐
	501	WO-9323744-A1	11-25-1993	HELLER E & CO [US]		☐
	502	WO-9406011-A1	03-17-1994	BOEHRINGER MANNHEIM CORP [US]		☐
	503	WO-9406012-A1	03-17-1994	BOEHRINGER MANNHEIM CORP [US]		☐
	504	WO-9408236-A1	04-14-1994	ECOSSENSORS LTD [GB], et al.		☐
	505	WO-9409506-A1	04-28-1994	ABBOTT LAB [US]		☐
	506	WO-9409507-A1	04-28-1994	ABBOTT LAB [US]		☐

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	507	WO-9419695-A1	09-01-1994	ABBOTT LAB [US]		☐
	508	WO-9421642-A1	09-29-1994	ABBOTT LAB [US]		☐
	509	WO-9421643-A1	09-29-1994	ABBOTT LAB [US]		☐
	510	WO-9421644-A1	09-29-1994	ABBOTT LAB [US]		☐
	511	WO-9422367-A1	10-13-1994	PFIZER INC. [US], et al.		☐
	512	WO-9426414-A1	11-24-1994	SYNTEX INC [US]		☐
	513	WO-9502357-A1	01-26-1995	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	514	WO-9507109-A1	03-16-1995	OTTAWA HEART INST RESEARCH COR [CA]		☐
	515	WO-9508774-A2	03-30-1995	ABBOTT LAB [US]		☐
	516	WO-9510044-A1	04-13-1995	I STAT CORP [US]		☐

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	517	WO-9511454-A1	04-27-1995	ABBOTT LAB [US]		☐
	518	WO-9513838-A1	05-26-1995	ELAN MED TECH [IE], et al.		☐
	519	WO-9517966-A1	07-06-1995	ABBOTT LAB [US]		☐
	520	WO-9522597-A1	08-24-1995	BOEHRINGER MANNHEIM CORP [US]		☐
	521	WO-9528878-A1	11-02-1995	MINIMED INC [US]		☐
	522	WO-9534814-A1	12-21-1995	ABBOTT LAB [US]		☐
	523	WO-9601611-A1	01-25-1996	BAXTER INT [US]		☐
	524	WO-9603117-A1	02-08-1996	UNIV PENNSYLVANIA [US]		☐
	525	WO-9605501-A1	02-22-1996	IGEN INC [US]		☐
	526	WO-9606947-A1	03-07-1996	HELLER ADAM [US], et al.		☐

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Attorney Docket Number	DEXCOM.053C22

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	527	WO-9614026-A1	05-17-1996	ELAN MED TECH [IE], et al.		☐
	528	WO-9622991-A1	08-01-1996	ABBOTT LAB [US]		☐
	529	WO-9622992-A1	08-01-1996	ABBOTT LAB [US]		☐
	530	WO-9624690-A1	08-15-1996	IGEN INC [US]		☐
	531	WO-9625088-A1	08-22-1996	MINIMED INC [US]		☐
	532	WO-9625089-A1	08-22-1996	MINIMED INC [US]		☐
	533	WO-9630431-A1	10-03-1996	MINIMED INC [US]		☐
	534	WO-9632076-A1	10-17-1996	BAXTER INTERNATONAL INC [US]		☐
	535	WO-9635370-A1	11-14-1996	MASSACHUSETTS INST TECHNOLOGY [US]		☐
	536	WO-9636296-A1	11-21-1996	BAXTER INT [US]		☐

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	538	WO-9641179-A1	12-19-1996	ABBOTT LAB [US]		☐
	539	WO-9701986-A1	01-23-1997	UNIV JEFFERSON [US], et al.		☐
	540	WO-9702811-A1	01-30-1997	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	541	WO-9706727-A1	02-27-1997	CARDIAC CRC NOMINEES PTY LTD [AU], et al.		☐
	542	WO-9711080-A1	03-27-1997	ABBOTT LAB [US]		☐
	543	WO-9713874-A1	04-17-1997	BOEHRINGER MANNHEIM GMBH [DE], et al.		☐
	544	WO-9717884-A2	05-22-1997	NELLCOR PURITAN BENNETT INC [US]		☐
	545	WO-9719188-A1	05-29-1997	MINIMED INC [US], et al.		☐

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	546	WO-9719344-A1	05-29-1997	LEGACY GOOD SAMARITAN HOSPITAL [US], et al.		☐
	547	WO-9728737-A1	08-14-1997	NOKIA MOBILE PHONES LTD [FI], et al.		☐
	548	WO-9730628-A1	08-28-1997	ABBOTT LAB [US]		☐
	549	WO-9733176-A1	09-12-1997	IGEN INC [US]		☐
	550	WO-9738625-A1	10-23-1997	UNIV MASSACHUSETTS [US], et al.		☐
	551	WO-9743633-A1	11-20-1997	ENCELLE INC [US], et al.		☐
	552	WO-9801071-A1	01-15-1998	ANIMAS CORP [US], et al.		☐
	553	WO-9804902-A1	02-05-1998	OREGON STATE [US], et al.		☐
	554	WO-9806423-A1	02-19-1998	GENENTECH INC [US]		☐
	555	WO-9819159-A1	05-07-1998	MERCURY DIAGNOSTICS INC [US], et al.		☐

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	557	WO-9824366-A2	06-11-1998	ABBOTT LAB [US], et al.		☐
	558	WO-9833549-A1	08-06-1998	MINIMED INC [US]		☐
	559	WO-9834541-A1	08-13-1998	ABBOTT LAB [US]		☐
	560	WO-9835053-A2	08-13-1998	HELLER E & CO [US], et al.		☐
	561	WO-9838904-A1	09-11-1998	OPTEL INSTR LIMITED [GB], et al.		☐
	562	WO-9838906-A1	09-11-1998	MARKWELL MEDICAL INST INC [US], et al.		☐
	563	WO-9841854-A1	09-24-1998	VISIBLE GENETICS INC [CA], et al.		☐
	564	WO-9842249-A1	10-01-1998	NELLCOR PURITAN BENNETT INC [US]		☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	565	WO-9844347-A1	10-08-1998	PERKIN ELMER CORP [US], et al.		☐
	566	WO-9844348-A1	10-08-1998	PERKIN ELMER CORP [US], et al.		☐
	567	WO-9845331-A2	10-15-1998	GENENTECH INC [US], et al.		☐
	568	WO-9845427-A2	10-15-1998	GENENTECH INC [US]		☐
	569	WO-9852043-A1	11-19-1998	ABBOTT LAB [US]		☐
	570	WO-9856293-A1	12-17-1998	MINIMED INC [US]		☐
	571	WO-9856923-A1	12-17-1998	UNIV NORTH CAROLINA STATE [US], et al.		☐
	572	WO-9858250-A2	12-23-1998	ELAN CORP PLC [IE]		☐
	573	WO-9904043-A1	01-28-1999	ABBOTT LAB [US]		☐
	574	WO-9912607-A1	03-18-1999	MANN ALFRED E FOUND SCIENT RES [US]		☐

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	575	WO-9913101-A1	03-18-1999	ABBOTT LAB [US]		☐
	576	WO-9913574-A1	03-18-1999	MANN ALFRED E FOUND SCIENT RES [US]		☐
	577	WO-9927848-A1	06-10-1999	ABBOTT LAB [US]		☐
	578	WO-9927852-A1	06-10-1999	ABBOTT LAB [US]		☐
	579	WO-9929230-A1	06-17-1999	HELLER E & CO [US], et al.		☐
	580	WO-9929429-A1	06-17-1999	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	581	WO-9929892-A1	06-17-1999	PERKIN ELMER CORP [US], et al.		☐
	582	WO-9933504-A1	07-08-1999	MINIMED INC [US]		☐
	583	WO-9940848-A1	08-19-1999	ABBOTT LAB [US]		☐
	584	WO-9948419-A1	09-30-1999	EGLISE DAVID [GB]		☐

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	585	WO-9949856-A2	10-07-1999	GENENTECH INC [US], et al.		☐
	586	WO-9956613-A1	11-11-1999	HELLER E & CO [US], et al.		☐
	587	WO-9958051-A1	11-18-1999	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	588	WO-9958709-A1	11-18-1999	ABBOTT LAB [US], et al.		☐
	589	WO-9958973-A1	11-18-1999	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	590	WO-9959657-A1	11-25-1999	NOVO NORDISK AS [DK]		☐
	591	WO-9964620-A2	12-16-1999	ABBOTT LAB [US]		☐

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Attorney Docket Number	DEXCOM.053C22

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	001	AALDERS, et al., "Development of a Wearable Glucose Sensor; Studies in Healthy Volunteers and in Diabetic Patients," The International Journal Of Artificial Organs, 1991, Vol. 14, No. 2, pp. 102-108.	☐
	002	ABE, et al., "Characterization of Glucose Microsensors for Intracellular Measurements," Analytical Chemistry, 1992, Vol. 64, No. 18, pp. 2160-2163.	☐
	003	ABEL, et al., "Biosensors For in Vivo Glucose Measurements: Can We Cross the Experimental Stage," Biosensors & Bioelectronics, 2002, Vol. 17, pp. 1059-1070.	☐
	004	ABEL, et al., "Experience With An Implantable Glucose Sensor as a Prerequisite of an Artificial Beta Cell," Biomed. Biochim. Actan, 1984, Vol. 43, No. 5, pp. 577-584.	☐
	005	ADILMAN, et al., "Videogames: Knowing The Score, Creative Computing," Dec, 1983, Dialog: File 148; IAC Trade & Industry Database, Vol. 9, p. 224(5) (9 pages).	☐
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	007	ALCOCK S.J., et al., "Continuous Analyte Monitoring To Aid Clinical Practice," IEEE Engineering in Medicine & Biology, 1994, Vol. 13, pp. 319-325.	☐
	008	AMATO, et al., "Experience with the Polytetrafluoroethylene Surgical Membrane for Pericardial Closure in Operations for Congenital Cardiac Defects," Journal of Thoracic and Cardiovascular Surgery, 1989, Vol. 97, pp. 929-934.	☐
	009	AMER M.M.B., "An Accurate Amperometric Glucose Sensor Based Glucometer with Eliminated Cross-Sensitivity," Journal of Medical Engineering & Technology, Vol. 26 (5), September/October 2002, pp. 208-213.	☐

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	010	AMIN, et al., "Hypoglycemia Prevalence in Prepubertal Children With Type 1 Diabetes On Standard Insulin Regimen: Use Of Continuous Glucose Monitoring System," Diabetes Care, 2003, Vol. 26, No. 3, pp. 662-667.	☐
	011	ARMOUR J.C., et al., "Application of Chronic Intravascular Blood Glucose Sensor in Dogs," Diabetes, December 1990, Vol. 39, pp. 1519-1526.	☐
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	013	Asker.Co.JP, "What is durometer?," /Product/, Kobunshi Keiki Co., Ltd. retrieved from http://www.asker.co.jp/en/products/durometer/analog/about/index.html on May 09, 2018, 2 pages.	☐
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	016	ATANASOV P., et al., "Biosensor for Continuous Glucose Monitoring," Biotechnology and Bioengineering, John Wiley & sons Inc, 1994, Vol. 43, pp. 262-266.	☐
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	019	BAILEY T.S., et al., "Reduction in Hemoglobin A1C with Real-Time Continuous Glucose Monitoring: Results from a 12-Week Observational Study," Diabetes Technology & Therapeutics, Vol. 9 (3), 2007, pp. 203-210.	☐
	020	BAKER D.A., et al., "Dynamic Concentration Challenges for Biosensor Characterization," Biosensors & Bioelectronics, Vol. 8, 1993, pp. 433-441.	☐
	021	BAKER D.A., et al., "Dynamic Delay and Maximal Dynamic Error in Continuous Biosensors," Analytical Chemistry, Vol. 68 (8), April 15, 1996, pp. 1292-1297.	☐
	022	BARD A.J., et al., "Electrochemical Methods," Fundamentals and Applications, John Wiley & Sons, New York, 1980, pp. 173-175.	☐
	023	BARDELETTI G., et al., "A Reliable L-Lactate Electrode with a New Membrane for Enzyme Immobilization for Amperometric Assay of Lactate," Analytica Chemica Acta, Vol. 187, 1986, pp. 47-54.	☐
	024	BEACH R.D., et al., "Subminiature Implantable Potentiostat and Modified Commercial Telemetry Device for Remote Glucose Monitoring," IEEE Transactions on Instrumentation and Measurement, Vol. 48 (6), December 1999, pp. 1239-1245.	☐
	025	BELLUCCI F., et al., "Electrochemical Behaviour of Graphite-Epoxy Composite Materials (GECM) in Aqueous Salt Solutions," Journal of Applied Electrochemistry, Vol. 16 (1), January 1986, pp. 15-22.	☐
	026	BENNION N., et al., "Alternate Site Glucose Testing: a Crossover Design," Diabetes Technology & Therapeutics, Vol. 4 (1), 2002, pp. 25-33.	☐
	027	BERGHE V.D., "Tight Blood Glucose Control with Insulin in "Real-Life" Intensive Care," Mayo Clinic Proceedings, Vol. 79 (8), August 2004, pp. 977-978.	☐

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	028	BERGVELD, et al., "Fabrication and Mass Production," Advances in Biosensors, Supplement 1, Chapter 6, 1993, pp. 165-186.	☐
	029	BERTRAND C., et al., "Multipurpose Electrode with Different Enzyme Systems Bound to Collagen Films," Analytica Chemica Acta, 1981, Vol. 126, pp. 23-34.	☐
	030	BESSMAN S.P., et al., "Progress toward a Glucose Sensor for the Artificial Pancreas," Proceedings of a Workshop on Ion-Selective Microelectrodes, June 4-5, 1973, Boston University, 1973, pp. 189-197.	☐
	031	BIERMANN E., et al., "How Would Patients Behave if they were Continually Informed of their Blood Glucose Levels? A Simulation Study Using a "Virtual" Patient," Diabetes Technology & Therapeutics, Vol. 10 (3), 2008, pp. 178-187.	☐
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	036	BLAND J.M., et al., "Statistical Methods for Assessing Agreement Between Two Methods of Clinical Measurement," The Lancet, February 8, 1986, pp. 307-310.	☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	037	BLANK T.B., et al., "Clinical Results From a Non-Invasive Blood Glucose Monitor," Optical Diagnostics and Sensing of Biological Fluids and Glucose and Cholesterol Monitoring II, Proceedings of SPIE, Vol. 4624, 2002, pp. 1-10.	☐
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	040	BODE B.W., et al., "Continuous Glucose Monitoring Used to Adjust Diabetes Therapy Improves Glycosylated Hemoglobin: A Pilot Study," Diabetes Research and Clinical Practice, Vol. 46, 1999, pp. 183-190.	☐
	041	BODE B.W., et al., "Using the Continuous Glucose Monitoring System to Improve the Management of Type 1 Diabetes," Diabetes Technology & Therapeutics, Vol. 2, Supplement 1, 2000, pp. S43 - S48.	☐
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	045	BOLINDER J., et al., "Self-Monitoring of Blood Glucose in Type I Diabetic Patients: Comparison with Continuous Microdialysis Measurements of Glucose in Subcutaneous Adipose Tissue during Ordinary Life Conditions," Diabetes Care, Vol. 20 (1), January 1997, pp. 64-70.	☐
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	048	BOWMAN L., et al., "The Packaging of Implantable Integrated Sensors," IEEE Transactions in Biomedical Engineering, Vol. BME-33 (2), February 1986, pp. 248-255.	☐
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	053	BRAUNWALD E., "Biomarkers in Heart Failure," Medical Progress, The New England Journal of Medicine, Vol. 358, May 15, 2008, pp. 2148-2159.	☐

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	054	BREMER T., et al., "Is Blood Glucose Predictable from Previous Values? A Solicitation for Data," Perspectives in Diabetes, Vol. 48, March 1999, pp. 445-451.	☐
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	063	CANDAS B., et al., "An Adaptive Plasma Glucose Controller Based on a Nonlinear Insulin/Glucose Model," IEEE Transactions on Biomedical Engineering, Vol. 41 (2), February 1994, pp. 116-124.	☐
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	072	CHOLEAU C., et al., "Calibration of a Subcutaneous Amperometric Glucose Sensor Part 1. Effect of Measurement Uncertainties on the Determination of Sensor Sensitivity and Background Current," Biosensors and Bioelectronics, Vol. 17, 2002, pp. 641-646.	☐
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	081	COLANGELO V.J., et al., "Corrosion Rate Measurements in Vivo," Journal of Biomedical Materials Research, Vol. 1, 1967, pp. 405-414.	☐
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	090	CURRIE J.F., et al., "Novel Non-Intrusive Trans-Dermal Remote Wireless Micro-Fluidic Monitoring System Applied to Continuous Glucose and Lactate Assays for Casualty Care and Combat Readiness Assessment," RTO HFM Symposium, RTO-MP-HFM-109, August 16-18, 2004, pp. 24-1 - 24-18.	☐
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	098	Declaration presented during Opposition proceedings EP2407094, PACE L., November 13, 2015. 6 pages.	☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	099	Declaration presented during Opposition proceedings EP2407094, SCHOONMAKER R., December 14, 2015, 10 pages.	☐
	100	Definition of plunger: https://www.merriam-webster.com/dictionary/plunger,dated November 7, 2016, 2 pages.	☐
	101	DEUTSCH T., et al., "Time Series Analysis and Control of Blood Glucose Levels in Diabetic Patients," Computer Methods and Programs in Biomedicine, Elsevier Scientific Publishers, Vol. 41, 1994, pp. 167-182.	☐
	102	DIXON B.M., et al., "Characterization in Vitro and in Vivo of the Oxygen Dependence of an Enzyme/Polymer Biosensor for Monitoring Brain Glucose," Journal of Neuroscience Methods, Vol. 119, 2002, pp. 135-142.	☐
	103	DOBSON, et al.,"1-Butyrul-Glycerol: A Novel Angiogenesis Factor Secreted by Differentiating Adipocytes," Cell, April 20, 1990, Vol. 61 (2), pp. 223-230.	☐
	104	DuPont, "Dimension® AR Clinical Chemistry System," The Chemistry Analyzer that Makes the most of your Time, Money and Effort, Dade International, Chemistry Systems, Newark, 1998, 18 pages.	☐
	105	DURLIAT H., et al., "Spectrophotometric and Electrochemical Determinations of L(+)-Lactate in Blood by Use of Lactate Dehydrogenase from Yeast," Clinical Chemistry, Vol. 22 (11), 1976, pp. 1802-1805.	☐
	106	EDWARDS LIFESCIENCES, "Accuracy for You and Your Patients," Marketing materials, 2002, 4 pages.	☐
	107	EL DEGHEIDY M.M., et al., "Optimization of an Implantable Coated Wire Glucose Sensor," Journal of Biomedical Engineering, Vol. 8, April 1986, pp. 121-129.	☐

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	108	ELCO Diagnostics Company, "Direct 30/30® Blood Glucose Sensor," Markwell Medical Catalog, 1990, 1 page.	☐
	109	EL-KHATIB F.H., et al., "Adaptive Closed-Loop Control Provides Blood-Glucose Regulation Using Dual Subcutaneous Insulin and Glucagon Infusion in Diabetic Swine," Journal of Diabetes Science and Technology, Diabetes Technology Society, Vol. 1 (2), 2007, pp. 181-192.	☐
	110	EL-SA'AD L., et al., "Moisture Absorption by Epoxy Resins: The Reverse Thermal Effect," Journal of Materials Science, Vol. 25, 1990, pp. 3577-3582.	☐
	111	English D., et al., "Platelet-Released Phospholipids Link Haemostasis and Angiogenesis," Cardiovascular Research, 2001, Vol. 49, pp. 588-599.	☐
	112	ERNST H., et al., "Reliable Glucose Monitoring Through the Use of Microsystem Technology," Analytical Bioanalytical Chemistry, Vol. 373, 2002, pp. 758-761.	☐
	113	European Electronic File History for EP Application No. 10195447.7, filed July 13, 2005 - withdrawn, Atty. Docket: DEXCOM.051EPD3, 200 pages.	☐
	114	European Electronic File History for EP Application No. 10195504.5, filed July 13, 2005 - withdrawn, Atty. Docket: DEXCOM.051EPD7, 186 pages.	☐
	115	European Electronic File History for EP Application No. 11182615.2, filed February 22, 2006, Atty. Docket No. DEXCOM.077VEPD1, 344 pages.	☐
	116	European Electronic File History for EP Application No. 11182630.1, filed September 23, 2011, Atty. Docket No. DEXCOM.077VEPD3, 336 pages.	☐
	117	European Electronic File History for EP Application No. 14184330.0, filed September 10, 2014, Atty. Docket No. DEXCOM.077EPD4, 377 pages.	☐

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	118	European Electronic File History for EP Application No. 17198022.0, filed October 24, 2017, Atty. Docket No. DEXCOM.053EPD3, 339 pages.	☐
	119	European Electronic File History for EP Patent Application No. 06773682.7 filed June 20, 2006, Atty. Docket No: DEXCOM.061VEP, 1697 pages.	☐
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	121	European Electronic File History for EP Patent No. 1855588 (06748336.2), granted November 21, 2007, Atty. Docket No. DEXCOM.053VEP, 862 pages.	☐
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	123	European Electronic File History for EP Patent No. 2322094 (10195496.4) granted March 5, 2014, Atty. Docket No. DEXCOM.051EPD1, 1778 pages.	☐
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	125	European Electronic File History for EP Patent No. 2327984 (10195521.9) granted February 25, 2015, Atty. Docket No. DEXCOM.051EPD9, 394 pages.	☐
	126	European Electronic File History for EP Patent No. 2329770 (10195509.4) granted September 10, 2014, Atty. Docket No. DEXCOM.051EPD12, 1274 pages.	☐
	127	European Electronic File History for EP Patent No. 2332466 (10195483.2) granted April 9, 2014, Atty. Docket No. DEXCOM.051EPD2, 484 pages.	☐

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	128	European Electronic File History for EP Patent No. 2335582 (10195511.0) granted September 10, 2014, Atty. Docket No. DEXCOM.051EPD13, 608 pages.	☐
	129	European Electronic File History for EP Patent No. 2335583 (10195520.1) granted March 18, 2015, Atty. Docket No. DEXCOM.051EPD8, 677 pages.	☐
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	138	European Electronic File History for EP Patent No. 2532305 (12171365.5) granted August 13, 2014, Atty. Docket No. DEXCOM.051EPD2, 504 pages.	☐
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	148	FAHY B.G., et al., "An Analysis: Hyperglycemic Intensive Care Patients Need Continuous Glucose Monitoring-Easier Said Than Done," Journal of Diabetes Science and Technology, Diabetes Technology Society, Vol. 2 (2), March 2008, pp. 201-204.	☐
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	155	File History of U.S. Patent Application No. 09/334,996, filed on June 17, 1999, 36 pages (see image file wrapper).	☐
	156	File History of U.S. Patent Application No. 09/447,227, filed on November 22, 1999, 1184 pages (see image file wrapper - Atty. Docket No. DEXCOM.008DV1).	☐

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	157	File History of U.S. Patent Application No. 09/489,588, filed on January 21, 2000, 412 pages (see image file wrapper - Atty. Docket No. DEXCOM.008DVC1).	☐
	158	File History of U.S. Patent Application No. 09/636,369, filed on August 11, 2000, 91 pages (see image file wrapper - Atty. Docket No. DEXCOM.008DVCP1).	☐
	159	File History of U.S. Patent Application No. 09/916,711, filed on July 27, 2001, 400 pages (see image file wrapper - Atty. Docket No. DEXCOM.007A).	☐
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	161	File History of U.S. Patent Application No. 10/153,356, filed on May 22, 2002, 326 pages (see image file wrapper - Atty. Docket No. DEXCOM.010A).	☐
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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	167	File History of U.S. Patent Application No. 10/647,065, filed on August 22, 2003, 203 pages (see image file wrapper - Atty. Docket No. DEXCOM.012A).	☐
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	216	File History of U.S. Patent Application No. 11/445,792 filed on June 1, 2006, 811 pages (see image file wrapper - Atty. Docket No. DEXCOM.61CP3CP1). .	☐

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	236	File History of U.S. Patent Application No. 11/842,154, filed on August 21, 2007 (see image file wrapper - Atty. Docket No. DEXCOM.061CP2C1).	☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author(in CAPITAL LETTERS),title of the article(when appropriate), title of the item (book,magazine,journal,serial,symposium,catalog,etc.),date,page(s),volume-issue number(s),publisher, city and/or country where published.	T[2]
	237	File History of U.S. Patent Application No. 11/842,157, filed on August 21, 2007, 167 pages (see image file wrapper - Atty. Docket No. DEXCOM.51P3P1C1).	☐
	238	File History of U.S. Patent Application No. 11/925,603, filed on October. 26, 2007, 453 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A7C1).	☐
	239	File History of U.S. Patent Application No. 11/928,968, filed October 30, 2007, 741 pages (see image file wrapper).	☐
	240	File History of U.S. Patent Application No. 12/101,790, filed on April. 11, 2008, 431 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6C3).	☐
	241	File History of U.S. Patent Application No. 12/101,806, filed on April 11, 2008, 611 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A9C1).	☐
	242	File History of U.S. Patent Application No. 12/101,810, filed on April 11, 2008, 569 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6C2).	☐
	243	File History of U.S. Patent Application No. 12/137,396, filed on June 11, 2008 (Atty. Docket No. DEXCOM.061A2DV1), 278 pages.	☐
	244	File History of U.S. Patent Application No. 12/175,391, filed on July 17, 2008, 564 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A8C1).	☐
	245	File History of U.S. Patent Application No. 12/245,618, filed October 3, 2008, 214 pages (see image file wrapper).	☐
	246	File History of U.S. Patent Application No. 12/250,918, filed on October 14, 2008, 333 pages (see image file wrapper - Atty. Docket No. DEXCOM.051CP3DV).	☐

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	247	File History of U.S. Patent Application No. 12/273,359, filed on November 18, 2008, 312 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A12C1).	☐
	248	File History of U.S. Patent Application No. 12/329,496, filed on December 05, 2008, 438 pages (see image file wrapper - Atty. Docket No. DEXCOM.051C6).	☐
	249	File History of U.S. Patent Application No. 12/353,870, filed on January 14, 2009, 425 pages (see image file wrapper - Atty. Docket No. DEXCOM.061C2).	☐
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	251	File History of U.S. Patent Application No. 12/364,786, filed on February 03, 2009, 1230 pages (see image file wrapper - Atty. Docket No. DEXCOM.061CP2C3).	☐
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	253	File History of U.S. Patent Application No. 12/393,887, filed on February 26, 2009, 502 pages (see image file wrapper - Atty. Docket No. DEXCOM.051C10).	☐
	254	File History of U.S. Patent Application No. 12/405,883, filed on March 17, 2009, 215 pages (see image file wrapper).	☐
	255	File History of U.S. Patent Application No. 12/437,436, filed on May 07, 2009, 524 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A1C2).	☐
	256	File History of U.S. Patent Application No. 12/537,245, filed August 6, 2009, 107 pages (see image file wrapper).	☐

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	257	File History of U.S. Patent Application No. 12/610,866, filed on November 02, 2009, 682 pages (see image file wrapper - Atty. Docket No. DEXCOM.061CP3C1).	☐
	258	File History of U.S. Patent Application No. 12/683,724, filed on January 7, 2010 (Atty. Docket No. DEXCOM.053C2), 497 pages.	☐
	259	File History of U.S. Patent Application No. 12/683,755, filed on January 7, 2010 (Atty. Docket No. DEXCOM.053C1), 694 pages.	☐
	260	File History of U.S. Patent Application No. 12/728,032, filed on March 19, 2010, 819 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6C4).	☐
	261	File History of U.S. Patent Application No. 12/728,060, filed on March 19, 2010, 323 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6C5).	☐
	262	File History of U.S. Patent Application No. 12/728,061, filed on March 19, 2010, 437 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6C6).	☐
	263	File History of U.S. Patent Application No. 12/728,082, filed on March 19, 2010, 802 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6C7).	☐
	264	File History of U.S. Patent Application No. 12/729,035, filed on March 22, 2010, 466 pages (see image file wrapper - Atty. Docket No. DEXCOM.51A8C1C1).	☐
	265	File History of U.S. Patent Application No. 12/729,048, filed on March 22, 2010, 488 pages (see image file wrapper - Atty. Docket No. DEXCOM.51A8C1C2).	☐
	266	File History of U.S. Patent Application No. 12/729,058, filed on March. 22, 2010, 502 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A10C1).	☐

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	267	File History of U.S. Patent Application No. 12/730,072, filed on March 23, 2010, 278 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A10C2).	☐
	268	File History of U.S. Patent Application No. 12/748,154, filed on March 26, 2010 (Atty. Docket No. DEXCOM.053C3), 419 pages.	☐
	269	File History of U.S. Patent Application No. 12/749,139, filed on March 29, 2010, 489 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A1C3).	☐
	270	File History of U.S. Patent Application No. 12/749,981, filed on March 30, 2010, 662 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A9C3).	☐
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	272	File History of U.S. Patent Application No. 12/780,606, filed on May 14, 2010, 372 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A12C4).	☐
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	274	File History of U.S. Patent Application No. 12/780,725, filed on May 14, 2010, 415 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A12C3).	☐
	275	File History of U.S. Patent Application No. 12/780,739, filed on May 14, 2010, 346 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A12C5).	☐
	276	File History of U.S. Patent Application No. 12/780,759, filed on May 14, 2010, 348 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A12C6).	☐

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	277	File History of U.S. Patent Application No. 12/853,235, filed on August 09, 2010, 374 pages (see image file wrapper - Atty. Docket No. DEXCOM.061CP2C4).	☐
	278	File History of U.S. Patent Application No. 13/077,884, filed on March 31, 2011, 635 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A1C1).	☐
	279	File History of U.S. Patent Application No. 13/086,160, filed on April 13, 2011, 967 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A1C2).	☐
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	281	File History of U.S. Patent Application No. 13/157,031, filed on June 09, 2011, 514 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6P1).	☐
	282	File History of U.S. Patent Application No. 13/172,640, filed on June 29, 2011, 436 pages (see image file wrapper - Atty. Docket No. DEXCOM.061P2C6).	☐
	283	File History of U.S. Patent Application No. 13/361,820, filed on January 30, 2012 (Atty Docket No. DEXCOM.077C2), 383 pages.	☐
	284	File History of U.S. Patent Application No. 13/415,721, filed on March 08, 2012, 473 pages (see image file wrapper - Atty. Docket No. DEXCOM.061P6C1).	☐
	285	File History of U.S. Patent Application No. 13/547,952, filed on July 12, 2012, 539 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A7C2).	☐
	286	File History of U.S. Patent Application No. 13/548,627, filed on July 13, 2012 (Atty. Docket No. DEXCOM.053C6), 361 pages.	☐

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	292	File History of U.S. Patent Application No. 13/903,609, filed on May 28, 2013, 401 pages (see image file wrapper - Atty. Docket No. DEXCOM.061C4).	☐
	293	File History of U.S. Patent Application No. 13/909,962, filed on June 04, 2013, 723 pages (see image file wrapper - Atty. Docket No. DEXCOM.051P1C2).	☐
	294	File History of U.S. Patent Application No. 13/938,103, filed on July 09, 2013 (Atty. Docket No. DEXCOM.053C8), 393 pages.	☐
	295	File History of U.S. Patent Application No. 14/144,523, filed on December 30, 2013, 405 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A1C6).	☐
	296	File History of U.S. Patent Application No. 14/163,346, filed on January 24, 2014, 583 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A1C3).	☐

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	302	File History of U.S. Patent Application No. 14/743,777, filed on June 18, 2015, 392 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6C9).	☐
	303	File History of U.S. Patent Application No. 14/860,602, filed on September 21, 2015, 429 pages (see image file wrapper - Atty. Docket No. DEXCOM.051P1C4).	☐
	304	File History of U.S. Patent Application No. 14/923,350, filed on October 26, 2015, 476 pages (see image file wrapper - Atty. Docket No. DEXCOM.051P1C5).	☐
	305	File History of U.S. Patent Application No. 14/924,030, filed on October 27, 2015, 403 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A1C4).	☐
	306	File History of U.S. Patent Application No. 15/065,623, filed on March 9, 2016 (Atty. Docket No. DEXCOM.053C9), 401 pages.	☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

NON-PATENT LITERATURE DOCUMENTS

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	307	File History of U.S. Patent Application No. 15/201,313, filed on July 1, 2016, 800 pages (see image file wrapper - Atty. Docket No. DEXCOM.051P1C6).	☐
	308	File History of U.S. Patent Application No. 15/470,766, filed on March 27, 2017, 336 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A9C4).	☐
	309	File History of U.S. Patent Application No. 15/686,650, filed on August 25, 2017, 296 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A1C7).	☐
	310	File History of U.S. Patent Application No. 15/719,298, filed on September 28, 2017, 258 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6C10).	☐
	311	File History of U.S. Patent Application No. 15/787,595, filed on October 18, 2017 (Atty. Docket No. DEXCOM.053C10), 230 pages.	☐
	312	File History of U.S. Patent Application No. 15/797,986, filed on October 30, 2017, 342 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A7C3).	☐
	313	File History of U.S. Patent Application No. 15/798,097, filed on October 30, 2017, 323 pages (see image file wrapper - Atty. Docket No. DEXCOM.51A6P1C2).	☐
	314	File History of U.S. Patent Application No. 15/877,311, filed on January 22, 2018, 208 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A1C5).	☐
	315	File History of U.S. Patent Application No. 15/891,201, filed on February 7, 2018 (Atty Docket No. DEXCOM.077C5), 364 pages.	☐
	316	File History of U.S. Patent Application No. 15/967,338, filed on April 30, 2018, 191 pages (see image file wrapper - Atty. Docket No. DEXCOM.051P4C1).	☐

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	317	File History of U.S. Patent Application No. 16/017,668, filed on June 25, 2018, 308 pages (see image file wrapper - Atty. Docket No. DEXCOM.051P3C1).	☐
	318	File History of U.S. Patent Application No. 16/133,469, filed on September 17, 2018, 178 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A1C8).	☐
	319	File History of U.S. Patent Application No. 16/137,411, filed on September 20, 2018, 174 pages (see image file wrapper - Atty. Docket No. DEXCOM.51A6P1C3).	☐
	320	File History of U.S. Patent Application No. 16/179,662, filed on November 2, 2018 (Atty Docket No. DEXCOM.077C6), 272 pages.	☐
	321	File History of U.S. Patent Application No. 16/181,678, filed on November 06, 2018,155 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6C11).	☐
	322	File History of U.S. Patent Application No. 60/362,899, filed on March 8, 2002, 67 pages (see image file wrapper).	☐
	323	File History of U.S. Patent Application No. 60/527,892, filed on December 08, 2003, 25 pages (see image file wrapper - Atty. Docket No. DEXCOM.031PR).	☐
	324	File History of U.S. Patent Application No. 60/528,382, filed on December 9, 2003, 182 pages (see image file wrapper - Atty. Docket No. DEXCOM.029PR).	☐
	325	File History of U.S. Patent Application No. 60/587,787, filed on July 13, 2004, 70 pages (see image file wrapper - Atty. Docket No. DEXCOM.049PR).	☐
	326	File History of U.S. Patent Application No. 60/587,800, filed on July 13, 2004, 29 pages (see image file wrapper - Atty. Docket No. DEXCOM.050PR).	☐

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	327	File History of U.S. Patent Application No. 60/614,683, filed on September 30, 2004, 465 pages (see image file wrapper - Atty. Docket No. DEXCOM.051PR).	☐
	328	File History of U.S. Patent Application No. 60/614,764, filed on September 30, 2004, 657 pages (see image file wrapper - Atty. Docket No. DEXCOM.052PR).	☐
	329	File History of U.S. Patent Application No. 60/660,743, filed on March 10, 2005 (Atty. Docket No. DEXCOM.053PR), 104 pages.	☐
	330	File History of U.S. Patent Application No. 90/011,086, filed on Jul. 8, 2010, 169 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A7RX).	☐
	331	File History of U.S. Patent Application No. 90/011,351, filed on November. 22, 2010, 260 pages (see image file wrapper - Atty. Docket No. DEXCOM.051X).	☐
	332	File History of U.S. Patent Application No. 90/011,663, filed on April 29, 2011, 306 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A5X1).	☐
	333	File History of U.S. Patent Application No. 90/011,887, filed on October 7, 2011, 769 pages (see image file wrapper - Atty. Docket No. DEXCOM.061P2X).	☐
	334	File History of U.S. Patent Application No. 90/012,558, filed on September 13, 2012, 294 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A7X2).	☐
	335	File History of U.S. Patent Application No. 95/001,038, filed on April 17, 2008, 1332 pages (see image file wrapper - DEXCOM.025RX).	☐
	336	File History of U.S. Patent Application No. 95/001,039, filed on April 17, 2008, 1409 pages (see image file wrapper - Atty. Docket No. DEXCOM.024RX).	☐

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	337	File History of U.S. Patent Application No. 95/002,333, filed on September 14, 2012, 556 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A5X2).	☐
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	343	FISCHER U., et al., "Assessment of Subcutaneous Glucose Concentration: Validation of the Wick Technique as a Reference for Implanted Electrochemical Sensors in Normal and Diabetic Dogs," Diabetologia, Vol. 30, 1987, pp. 940-945.	☐
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	345	FISCHER U., et al., "Oxygen Tension at the Subcutaneous Implantation Site of Glucose Sensors," Biomed. Biochim. Acta, Vol. 48 (11/12), 1989, pp. 965-971.	☐

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	346	FREEDMAN D., et al., "Statistics," Second Edition, W.W. Norton & Company, New York & London, 1991, page 74 (3 pages).	☐
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	348	FROHNAUER M.K., et al., "Graphical Human Insulin Time-Activity Profiles Using Standardized Definitions," Diabetes Technology & Therapeutics, Vol. 3 (3), 2001, pp. 419-429.	☐
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	353	GAO S., et al., "Determination of Interfacial Parameters of Cellulose Acetate Membrane Materials by HPLC," Journal of Liquid Chromatography, 1989, Vol. 12(11), pp. 2083-2092.	☐
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	355	GARG S.K., et al., "Improved Glucose Excursions Using an Implantable Real-Time Continuous Glucose Sensor in Adults With Type 1 Diabetes," Emerging Treatments and Technologies, Diabetes Care, Vol. 27 (3), 2004, pp. 734-738.	☐
	356	GELLER R.I., et al., "Use of an Immunoisolation Device for Cell Transplantation and Tumor Immunotherapy," Annals of the New York Academy of Science, 1997, Vol. 831, pp. 438-451.	☐
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	363	Gore Preclude®, Pericardial Membrane Brochure, June 2009. W.L. Gore & Associates Inc., Flagstaff, AZ 86004.	☐

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	364	Gore Preclude®, Pericardial Membrane Brochure, Nov. 2001, W.L. Gore & Associates Inc., Flagstaff, AZ - 86004, 4 pages.	☐
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	372	GROSS, et al., "Diabetes Technology & Therapeutics," Letters to the Editor, Diabetes Technology & Therapeutics, Vol. 3 (1), 2001, pp. 129-131.	☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

NON-PATENT LITERATURE DOCUMENTS

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	373	GUERCI B., et al., "Clinical Performance of CGMS in Type 1 Diabetic Patients Treated by Continuous Subcutaneous Insulin Infusion Using Insulin Analogs," Diabetes Care, Vol. 26, 2003, pp. 582-589.	☐
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	389	HELLER A., "Implanted Electrochemical Glucose Sensors for the Management of Diabetes," Annu. Rev., Biomed Eng., Vol. 1, 1999, pp. 153-175.	☐
	390	HELLER A., "Plugging Metal Connectors into Enzymes," Nature Biotechnology, Vol. 21, No. 6, June 2003, pp. 631-632.	☐

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	403	International Preliminary Examination Report for Application No. PCT/US2002/023903 mailed April 18, 2005, 5 pages - Atty. Docket No. DEXCOM.007VPC.	☐
	404	International Preliminary Report on Patentability for Application No. PCT/US2004/023455 mailed January 23, 2006, 7 pages - Atty. Docket No. DEXCOM.019VPC.	☐
	405	International Preliminary Report on Patentability for Application No. PCT/US2004/040476 mailed December 08, 2006, 4 pages - Atty. Docket No. DEXCOM.038VPC.	☐
	406	International Preliminary Report on Patentability for Application No. PCT/US2005/014696 mailed November 7, 2006, 6 pages - Atty. Docket No. DEXCOM.044VPC.	☐
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	408	International Preliminary Report on Patentability for Application No. PCT/US2005/024994 mailed January 16, 2007, 8 pages - Atty. Docket No. DEXCOM.050VPC.	☐
	409	International Preliminary Report on Patentability for Application No. PCT/US2006/006574 mailed August 26, 2008, 10 pages - Atty. Docket No. DEXCOM.077VPC.	☐
	410	International Preliminary Report on Patentability for Application No. PCT/US2006/008616 mailed March 03, 2009, 7 pages - Atty. Docket No. DEXCOM.053VPC.	☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	467	KIDD K R., et al., "Angiogenesis and Neovascularization Associated with Extracellular Matrix Modified Porous Implants," Journal of Biomedical Materials Research, 2001, Vol. 59(2), pp. 366-377.	☐
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	503	LOWE C.R., "Biosensors," Trends in Biotechnology, Vol. 2 (3), 1984, pp. 59-65.	☐
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	565	Nintendo Healthcare, Wired, December 1993, 1 page.	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet | 241 | of | 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author(in CAPITAL LETTERS),title of the article(when appropriate), title of the item (book,magazine,journal,serial,symposium,catalog,etc.),date,page(s),volume-issue number(s),publisher, city and/or country where published.	T[2]
	566	Notice of Allowance for U.S Application No. 12/422,223, mailed June 22, 2012, 8 pages.	☐
	567	NOVO NORDISK PHARMACEUTICALS Inc., "Diabetes Educational Video Game Recognized by Software Publishers Association," Press Release, March 14, 1994, 4 pages.	☐
	568	Office Action for European Application No. 10193214.3 mailed May 02, 2013 and Applicant Response filed August 28, 2013, 12 pages - Atty. Docket No. DEXCOM.029EPD1.	☐
	569	Office Action for Japanese Application No. 10-538680, mailed November 20, 2007, 13 pages - Atty. Docket No. DEXCOM.008VJP.	☐
	570	Office Action for U.S Application No. 08/811,473, mailed December 07, 1998, 5 pages - Atty. Docket No. DEXCOM.008A.	☐
	571	Office Action for U.S Application No. 09/916,386, mailed April 09, 2003, 8 pages - Atty. Docket No. DEXCOM.006A.	☐
	572	Office Action for U.S Application No. 10/657,843, mailed September 21, 2004, 8 pages - Atty. Docket No. DEXCOM.8DVC1C1.	☐
	573	Office Action for U.S Application No. 10/768,889, mailed February 04, 2009, 9 pages - Atty. Docket No. DEXCOM.006C1.	☐
	574	Office Action for U.S Application No. 10/991,966, mailed July 22, 2008, 12 pages - Atty. Docket No. DEXCOM.032A.	☐
	575	Office Action for U.S Application No. 10/991,966, mailed November 28, 2007, 13 pages - Atty. Docket No. DEXCOM.032A.	☐

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Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	576	Office Action for U.S Application No. 11/007,635, mailed January 27, 2006, 9 pages - Atty. Docket No. DEXCOM.031A.	☐
	577	Office Action for U.S Application No. 11/007,920, mailed June 24, 2008, 10 pages - Atty. Docket No. DEXCOM.029A.	☐
	578	Office Action for U.S Application No. 11/021,046, mailed August 19, 2009, 6 pages - Atty. Docket No. DEXCOM.008DV1C.	☐
	579	Office Action for U.S Application No. 11/021,046, mailed December 26, 2007, 6 pages - Atty. Docket No. DEXCOM.008DV1C.	☐
	580	Office Action for U.S Application No. 11/021,046, mailed February 04, 2009, 7 pages - Atty. Docket No. DEXCOM.008DV1C.	☐
	581	Office Action for U.S Application No. 11/021,046, mailed June 23, 2008, 6 pages - Atty. Docket No. DEXCOM.008DV1C.	☐
	582	Office Action for U.S Application No. 11/021,162, mailed June 19, 2008, 8 pages - Atty. Docket No. DEXCOM.007C1.	☐
	583	Office Action for U.S Application No. 11/034,343, mailed December 30, 2008, 4 pages - Atty. Docket No. DEXCOM.040A.	☐
	584	Office Action for U.S Application No. 11/034,343, mailed July 10, 2008, 6 pages - Atty. Docket No. DEXCOM.040A.	☐
	585	Office Action for U.S Application No. 11/034,343, mailed November 01, 2007, 5 pages - Atty. Docket No. DEXCOM.040A.	☐

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	586	Office Action for U.S Application No. 11/034,344, mailed January 15, 2008, 5 pages - Atty. Docket No. DEXCOM.039A.	☐
	587	Office Action for U.S Application No. 11/038,340, mailed February 02, 2010, 18 pages - Atty. Docket No. DEXCOM.024C1.	☐
	588	Office Action for U.S Application No. 11/038,340, mailed January 05, 2009, 13 pages - Atty. Docket No. DEXCOM.024C1.	☐
	589	Office Action for U.S Application No. 11/038,340, mailed June 07, 2010, 18 pages - Atty. Docket No. DEXCOM.024C1.	☐
	590	Office Action for U.S Application No. 11/038,340, mailed June 17, 2008, 11 pages - Atty. Docket No. DEXCOM.024C1.	☐
	591	Office Action for U.S Application No. 11/038,340, mailed May 19, 2009, 14 pages - Atty. Docket No. DEXCOM.024C1.	☐
	592	Office Action for U.S Application No. 11/038,340, mailed November 09, 2009, 16 pages - Atty. Docket No. DEXCOM.024C1.	☐
	593	Office Action for U.S Application No. 11/055,779, mailed May 23, 2007, 13 pages - Atty. Docket No. DEXCOM.034A.	☐
	594	Office Action for U.S Application No. 11/055,779, mailed October 24, 2007, 15 pages - Atty. Docket No. DEXCOM.034A.	☐
	595	Office Action for U.S Application No. 11/077,759, mailed July 10, 2008, 10 pages - Atty. Docket No. DEXCOM.050A.	☐

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Sheet 244 of 274

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Art Unit	3791
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	596	Office Action for U.S Application No. 11/077,759, mailed March 31, 2008, 16 pages - Atty. Docket No. DEXCOM.050A.	☐
	597	Office Action for U.S Application No. 11/077,759, mailed May 17, 2007, 13 pages - Atty. Docket No. DEXCOM.050A.	☐
	598	Office Action for U.S Application No. 11/077,759, mailed May 26, 2009, 8 pages - Atty. Docket No. DEXCOM.050A.	☐
	599	Office Action for U.S Application No. 11/415,631, mailed March 04, 2010, 6 pages - Atty. Docket No. DEXCOM.011DV3.	☐
	600	Office Action for U.S Application No. 11/416,058, mailed March 05, 2010, 6 pages - Atty. Docket No. DEXCOM.011DV1.	☐
	601	Office Action for U.S Application No. 11/416,346, mailed March 04, 2010, 7 pages - Atty. Docket No. DEXCOM.011DV2.	☐
	602	Office Action for U.S Application No. 11/416,734, mailed May 17, 2010, 10 pages - Atty. Docket No. DEXCOM.012CP1C2.	☐
	603	Office Action for U.S Application No. 11/416,734, mailed October 14, 2009, 11 pages - Atty. Docket No. DEXCOM.012CP1C2.	☐
	604	Office Action for U.S Application No. 11/416,825, mailed October 22, 2009, 11 pages - Atty. Docket No. DEXCOM.012CP1C1.	☐
	605	Office Action for U.S Application No. 11/543,539, mailed December 12, 2007, 8 pages - Atty. Docket No. DEXCOM.038CP2.	☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
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Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	608	Office Action for U.S Application No. 11/543,683, mailed May 18, 2007, 7 pages - Atty. Docket No. DEXCOM.038CP3.	☐
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	610	Office Action for U.S Application No. 11/543,707, mailed May 18, 2007, 6 pages - Atty. Docket No. DEXCOM.038CP1.	☐
	611	Office Action for U.S Application No. 11/543,734, mailed December 17, 2007, 11 pages - Atty. Docket No. DEXCOM.038CP4.	☐
	612	Office Action for U.S Application No. 11/543,734, mailed June 05, 2007, 7 pages - Atty. Docket No. DEXCOM.038CP4.	☐
	613	Office Action for U.S Application No. 11/546,157, mailed February 26, 2010, 6 pages - Atty. Docket No. DEXCOM.8DCP2CC1.	☐
	614	Office Action for U.S Application No. 11/691,424, mailed December 08, 2009, 10 pages - Atty. Docket No. DEXCOM.088CP3.	☐
	615	Office Action for U.S Application No. 11/691,424, mailed June 11, 2009, 21 pages - Atty. Docket No. DEXCOM.088CP3.	☐

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Sheet 246 of 274

Complete if Known	
Application Number	16690977
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	617	Office Action for U.S Application No. 11/691,424, mailed September 25, 2008, 15 pages - Atty. Docket No. DEXCOM.088CP3.	☐
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	620	Office Action for U.S Application No. 11/691,432, mailed November 30, 2009, 15 pages - Atty. Docket No. DEXCOM.088CP2.	☐
	621	Office Action for U.S Application No. 11/691,432, mailed September 19, 2008, 11 pages - Atty. Docket No. DEXCOM.088CP2.	☐
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	624	Office Action for U.S Application No. 11/692,154, mailed July 08, 2009, 6 pages - Atty. Docket No. DEXCOM.38CP1CP1.	☐
	625	Office Action for U.S Application No. 12/037,812, mailed April 01, 2009, 5 pages - Atty. Docket No. DEXCOM.8DV1CPD2.	☐

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	627	Office Action for U.S Application No. 12/037,812, mailed September 29, 2008, 7 pages - Atty. Docket No. DEXCOM.8DV1CPD2.	☐
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	630	Office Action for U.S Application No. 12/037,830, mailed February 26, 2009, 7 pages - Atty. Docket No. DEXCOM.8DV1CPD1.	☐
	631	Office Action for U.S Application No. 12/037,830, mailed September 29, 2008, 6 pages - Atty. Docket No. DEXCOM.8DV1CPD1.	☐
	632	Office Action for U.S Application No. 12/052,489, mailed August 25, 2010, 12 pages.	☐
	633	Office Action for U.S Application No. 12/055,098, mailed October 05, 2010, 12 pages - Atty. Docket No. DEXCOM.106A.	☐
	634	Office Action for U.S Application No. 12/098,359, mailed July 07, 2010, 18 pages - Atty. Docket No. DEXCOM.024C1D1.	☐
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	636	Office Action for U.S Application No. 12/102,654, mailed March 10, 2010, 6 pages - Atty. Docket No. DEXCOM.016DV1.	☐
	637	Office Action for U.S Application No. 12/102,729, mailed July 07, 2009, 7 pages - Atty. Docket No. DEXCOM.016DV2.	☐
	638	Office Action for U.S Application No. 12/102,745, mailed December 23, 2008, 4 pages - Atty. Docket No. DEXCOM.016DV3.	☐
	639	Office Action for U.S Application No. 12/111,062, mailed March 03, 2010, 8 pages - Atty. Docket No. DEXCOM.038CP3C1.	☐
	640	Office Action for U.S Application No. 12/113,508, mailed February 23, 2010, 9 pages - Atty. Docket No. DEXCOM.063C2.	☐
	641	Office Action for U.S Application No. 12/113,724, mailed June 24, 2010, 12 pages - Atty. Docket No. DEXCOM.063C1.	☐
	642	Office Action for U.S Application No. 12/133,738, mailed September 10, 2010, 11 pages - Atty. Docket No. DEXCOM.094A2.	☐
	643	Office Action for U.S Application No. 12/133,761, mailed September 07, 2010, 11 pages - Atty. Docket No. DEXCOM.094A3.	☐
	644	Office Action for U.S Application No. 12/139,305, mailed January 13, 2010, 12 pages - Atty. Docket No. DEXCOM.023RE.	☐
	645	Office Action for U.S Application No. 12/182,073, mailed June 28, 2010, 20 pages - Atty. Docket No. DEXCOM.032C1.	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 249 of 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	646	Office Action for U.S Application No. 12/182,083, mailed June 24, 2010, 8 pages - Atty. Docket No. DEXCOM.032DV3.	☐
	647	Office Action for U.S Application No. 12/264,160, mailed June 03, 2010, 5 pages - Atty. Docket No. DEXCOM.38CPCPDV.	☐
	648	Office Action for U.S Application No. 12/422,223, mailed December 22, 2011, 11 pages.	☐
	649	Office Action for U.S Application No. 12/536,852, mailed June 25, 2010, 8 pages - Atty. Docket No. DEXCOM.037DV1.	☐
	650	Office Action for U.S Application No. 12/536,852, mailed October 18, 2010, 10 pages - Atty. Docket No. DEXCOM.037DV1.	☐
	651	Office Action for U.S Application No. 12/619,502, mailed September 07, 2010, 6 pages - Atty. Docket No. DEXCOM.038C1.	☐
	652	Office Action for U.S Application No. 12/829,337, mailed October 05, 2012, 10 pages - Atty. Docket No. DEXCOM.157A3.	☐
	653	Office Action from European Patent Application No. 05771646.6, dated August 16, 2011, 3 pages - Atty. Docket No. DEXCOM.050VEP.	☐
	654	Office Action from European Patent Application No. 05771646.6, dated August 19, 2009, 4 pages - Atty. Docket No. DEXCOM.050VPC.	☐
	655	Office Action from European Patent Application No. 05771646.6, dated June 2, 2010, 5 pages - Atty. Docket No. DEXCOM.050VPC.	☐

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	656	Office Action from European Patent Application No. 05856669.6, dated August 4, 2011, 7 pages - Atty. Docket No. DEXCOM.044VEP.	☐
	657	Office Action from European Patent Application No. 05856669.6, dated June 7, 2010, 5 pages - Atty. Docket No. DEXCOM.044VEP.	☐
	658	Office Action from European Patent Application No. 05856669.6, dated November 8, 2010, 6 pages - Atty. Docket No. DEXCOM.044VEP.	☐
	659	Office Action from Japanese Patent Application No. 2007-521636 dated March 1, 2011, 4 pages - Atty. Docket No. DEXCOM.051VJP. .	☐
	660	Office Action from Japanese Patent Application No. 2011-121598 dated May 22, 2012, 5 pages - Atty. Docket No. DEXCOM.051VJPD1.	☐
	661	Office Action from Japanese Patent Application No. 2011-121598 dated October 18, 2011, 9 pages - Atty. Docket No. DEXCOM.051VJPD1.	☐
	662	Office Action from Japanese Patent Application No. 2012-006893 dated May 22, 2012, 4 pages - Atty. Docket No. DEXCOM.051VJPD2.	☐
	663	Office Action from Japanese Patent Application No. 2012-169323 dated October 16, 2012, 4 pages - Atty. Docket No. DEXCOM.051VJPD3.	☐
	664	Office Action from Japanese Patent Application No. 2013-000959 dated January 31, 2014, 6 pages - Atty. Docket No. DEXCOM.051VJPD4.	☐
	665	OHARA T.J., et al., ""Wired" Enzyme Electrodes for Amperometric Determination of Glucose or Lactate in the Presence of Interfering Substances," Anal Chem, Vol. 66, 1994, pp. 2451-2457.	☐

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	666	OHARA T.J., et al., "Glucose Electrodes Based On Cross-Linked [Os(bpy)2Cl](+/2+) Complexed Poly(1-Vinylimidazole) Films," Analytical Chemistry, Vol. 65, December 1993, pp. 3512-3517.	☐
	667	OKUDA, et al., "Mutarotase Effect on Micro Determinations of D-Glucose and its Anomers with β D-Glucose Oxidase," Anal Biochem, Vol. 43 (1), 1971, pp. 312-315.	☐
	668	Oxford English Dictionary Online, Definition of "Impending," http://www.askoxford.com/results/?view=devdict&field-12668446_Impending&branch=, January 11, 2010, 1 page.	☐
	669	PALMISANO F., et al., "Simultaneous Monitoring of Glucose and Lactate by an Interference and Cross- Talk Free Dual Electrode Amperometric Biosensor Based on Electropolymerized Thin Films," Biosensors & Bioelectronics, Vol. 15, 2000, pp. 531-539.	☐
	670	PANETTI T.S., "Differential Effects of Sphingosine 1-Phosphate and Lysophosphatidic Acid on Endothelial Cells," Biochimica et Biophysica Acta, Vol. 1582, 2002, pp. 190-196.	☐
	671	PANTELEON A.E., et al., "The Role of the Independent Variable to Glucose Sensor Calibration," Diabetes Technology & Therapeutics, Vol. 5 (3), 2003, pp. 401-410.	☐
	672	PARAMOUNT PDS., "Durometer Made Easy (R) / Durometer Hardness Scales - General Reference Guide," Paramount Industries Inc., 2008, 1 page.	☐
	673	PARK I.B., et al., "Gas Separation Properties of Polysiloxane/Polyether Mixed Soft Segment Urethane Urea Membranes," Journal of Membrane science, Vol. 204, 2002, pp. 257-269.	☐
	674	PARKER R.S., et al., "A Model-Based Algorithm for Blood Glucose Control In Type I Diabetic Patients," IEEE Trans Biomed Engg (BME), Vol. 46(2), 1999, pp. 148-157.	☐

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	675	PATEL H., et al., "Amperometric Glucose Sensors Based on Ferrocene Containing Polymeric Electron Transfer Systems--A Preliminary Report," Biosensors & Bioelectronics, Vol. 18, 2003, pp. 1073-1076.	☐
	676	PEACOCK W.F., et al., "Cardiac Troponin and Outcome in Acute Heart Failure," N. Engl. J. Med., Vol. 358, 2008, pp. 2117-2126.	☐
	677	PEGORARO M., et al., "Gas Transport Properties of Siloxane Polyurethanes," Journal of Applied Polymer Science, Vol. 57, 1995, pp. 421-429.	☐
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	685	PICKUP J.C., et al., "Implantable Glucose Sensors: Choosing the Appropriate Sensor Strategy," Biosensors, Vol. 3, (1987/1988), pp. 335-346.	☐
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	693	PITZER K.R., et al., "Detection of Hypogylcemia with the Glucowatch Biographer," Diabetes Care, Vol. 24 (5), 2001, pp. 881-885.	☐
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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	830	WANG X., et al., "Improved Ruggedness for Membrane-Based Amperometric Sensors using a Pulsed Amperometric Method," Analytical Chemistry, Vol. 69 (21), November 01, 1997, pp. 4482-4489.	☐
	831	WARD W.K., et al., "A New Amperometric Glucose Microsensor: In Vitro and Short-Term In Vivo Evaluation," Biosensors & Bioelectronics, Vol. 17, 2002, pp. 181-189.	☐
	832	WARD W.K., et al., "Assessment of Chronically Subcutaneous Glucose Sensors in Dogs: The Effect of Surrounding Fluid Masses," ASAIO Journal, 1999, Vol. 45 (6), pp. 555-561.	☐
	833	WARD W.K., et al., "Rise in Background Current Over Time in a Subcutaneous Glucose Sensor in the Rabbit," Relevance to Calibration and Accuracy, Biosensors & Bioelectronics, Vol. 15, 2000, pp. 53-61.	☐
	834	WARD W.K., et al., "Understanding Spontaneous Output Fluctuations of an Amperometric Glucose Sensor: Effect of Inhalation Anesthesia and Use of a Nonenzyme Containing Electrode," ASAIO Journal, 2000, pp. 540-546.	☐

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 270 of 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author(in CAPITAL LETTERS),title of the article(when appropriate), title of the item (book,magazine,journal,serial,symposium,catalog,etc.),date,page(s),volume-issue number(s),publisher, city and/or country where published.	T[2]
	835	WARD, et al., "A Wire-Based Dual-Analyte Sensor for Glucose and Lactate: In Vitro and In Vivo Evaluation," Diabetes Technology and Therapeutics, 2004, Vol. 6 (3), pp. 389-401.	☐
	836	WIENTJES K.J.C., "Development of a Glucose Sensor for Diabetic Patients," (Ph.D. Thesis), 2000, 212 pages.	☐
	837	WIKIPEDIA., "Intravenous Therapy," http://en.wikipedia.org/wiki/Intravenous_therapy, August 15, 2006, 6 pages.	☐
	838	WILKINS E., et al., "Glucose Monitoring: State of the Art and Future Possibilities," Med. Eng. Phys., Vol. 18 (4), 1996, pp. 273-288.	☐
	839	WILKINS E., et al., "Integrated Implantable Device for Long-Term Glucose Monitoring," Biosensors & Bioelectronics, Vol. 10, 1995, pp. 485-494.	☐
	840	WILKINS E.S., et al., "The Coated Wire Electrode Glucose Sensor," Horm Metab Res Suppl., Vol. 20, 1988, pp. 50-55.	☐
	841	WILSON G.S., et al., "Enzyme-Based Biosensors for In Vivo Measurements," Chem. Rev., Vol. 100, 2000, pp. 2693-2704.	☐
	842	WILSON G.S., et al., "Progress Toward the Development of an Implantable Sensor for Glucose," Clinical Chemistry, Vol. 38 (9), 1992, pp. 1613-1617.	☐
	843	WOLPERT H., "Establishing a Continuous Glucose Monitoring Program," Journal of Diabetes Science and Technology, March 2008, Vol. 2 (2), pp. 307-310.	☐
	844	WOOD W D., et al., "Hermetic Sealing with Epoxy," Pave Technology-Mechanical Engineering, March 1990, 3 pages.	☐

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
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	845	WOODWARD S.C., "How Fibroblasts and Giant Cells Encapsulate Implants: Considerations in Design of Glucose Sensor," Diabetes Care, Vol. 5 (3) May-June 1982, pp. 278-281.	☐
	846	WORSLEY G.J et al., "Measurement of Glucose in Blood with a Phenylboronic Acid Optical Sensor," Journal of Diabetes Science and Technology, Vol. 2 (2), March 2008, pp. 213-220.	☐
	847	WRIGHT M., et al., "Bioelectrochemical Dehalogenations Via Direct Electrochemistry of Poly(ethylene oxide)-Modified Myoglobin," Electrochemistry Communications, Vol. 1, 1999, pp. 609-613.	☐
	848	Written Opinion for Application No. PCT/US2002/023903 mailed November 15, 2004, 5 pages - Atty. Docket No. DEXCOM.007VPC.	☐
	849	WU H., et al., "In Situ Electrochemical Oxygen Generation with an Immunoisolation Device," Annals New York Academy of Sciences, Vol. 875, 1999, pp. 105-125.	☐
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	851	YAMASAKI Y., et al., "Direct Measurement of Whole Blood Glucose by a Needle-Type Sensor," Clinica Chimica Acta. 93, 1989, pp. 93-98.	☐
	852	YANG C., et al., "A Comparison of Physical Properties and Fuel Cell Performance of Nafion and Zirconium Phosphate/Nation Composite Membranes," Journal of Membrane Science, Vol. 237, 2004, pp. 145-161.	☐
	853	YANG Q., et al., "Development of Needle-Type Glucose Sensor with High Selectivity," Science and Actuators B, Vol. 46, 1998, pp. 249-256.	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 272 of 274

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	854	YANG S., et al., "A Glucose Biosensor Based On an Oxygen Electrode: In-Vitro Performances in a Model Buffer Solution and in Blood Plasma," Biomedical Instrumentation & Technology, Vol. 30 (1), 1996, pp. 55-61.	☐
	855	YANG S., et al., "Glucose Biosensors with Enzyme Entrapped in Polymer Coating," Biomedical Instrument and Technology, March/April 1995, Vol. 29 (2), pp. 125-133.	☐
	856	YANG X., et al., "Polyelectrolyte and Molecular Host Ion Self-Assembly to Multilayer Thin Films: An Approach to Thin Film Chemical Sensors," Sensors and Actuators B, Vol. 45, 1997, pp. 87-92.	☐
	857	YE L., et al., "High Current Density Wired' Quinoprotein Glucose Dehydrogenase Electrode," Analytical Chemistry, Vol. 65, 1993, pp. 238-241.	☐
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	859	ZAVALKOFF S.R., et al., "Evaluation Of Conventional Blood Glucose Monitoring as An Indicator of Integrated Glucose Values Using a Continuous Subcutaneous Sensor," Diabetes Care, Vol. 25(9), 2002, pp. 1603-1606.	☐
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Sheet | 273 | of | 274

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Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	863	ZHANG, et al., "Elimination of the Acetaminophen Interference in an Implantable Glucose Sensor," Analytical Chemistry, 1994, Vol. 66 (7), pp. 1183-1188.	☐
	864	ZHU, et al., "Fabrication and Characterization of Glucose Sensors Based on a Microarray H2O2 Electrode," Biosensors & Bioelectronics, 1994, Vol. 9, pp. 295-300.	☐
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	866	ZIAIE, et al., "A Single-Channel Implantable Microstimulator for Functional Neuromuscular Stimulation," IEEE Transactions on Biomedical Engineering, 1997, Vol. 44(10), pp. 909-920.	☐

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT

First Inventor	:	Jack Pryor
App. No.	:	16/690977
Filed	:	November 21, 2019
For	:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
Examiner	:	Unassigned
Art Unit	:	3791
Conf. No.	:	3197

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Listed references are of record in U.S. patent application No. 16/457628, filed June 28, 2019, which is the parent of this Continuation application, and is relied upon for an earlier filing date under 35 USC 120. Copies of the references are not submitted pursuant to 37 CFR 1.98(d).

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed within three months of the filing date and no fee is required.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: December 16, 2019

By: /Rose M. Thiessen/
Rose M. Thiessen
Registration No. 40,202
Registered Practitioner
Customer No. 68851
(858) 707-4000

31874577:abt

Electronic Acknowledgement Receipt

EFS ID:	38041261
Application Number:	16690977
International Application Number:	
Confirmation Number:	3197
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Jack Pryor
Customer Number:	68851
Filer:	Rose M. Thiessen/Alexa Terracin
Filer Authorized By:	Rose M. Thiessen
Attorney Docket Number:	DEXCOM.053C22
Receipt Date:	16-DEC-2019
Filing Date:	21-NOV-2019
Time Stamp:	15:05:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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Sheet	274	of	274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Rose M. Thiessen/	Date (YYYY-MM-DD)	2019-12-16
Name/Print	Rose M. Thiessen	Registration Number	40,202

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31874556:abt

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor	:	Jack Pryor
App. No.	:	16/690977
Filed	:	November 21, 2019
For	:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
Examiner	:	Natnithithadha, Navin
Art Unit	:	3791
Conf. No.	:	3197

PRELIMINARY AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Prior to the examination of the above-identified application on the merits, please amend the application as follows.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 3 of this paper.

Abbott Ex. 1003 - 502/875

AMENDMENTS TO THE CLAIMS

1-20. (Canceled)

21. (New) A glucose monitoring system comprising:

a transcutaneous glucose sensor having an in vivo portion and an ex vivo portion.

22. (New) A method for calibrating data from a transcutaneous glucose sensor, the method comprising:

receiving sensor data from the transcutaneous glucose sensor after the transcutaneous glucose sensor is implanted in a host, wherein the sensor data is indicative of a glucose concentration in the host; and

calibrating, using a processor, the sensor data received from the transcutaneous glucose sensor.

Abbott Ex. 1003 - 503/875

REMARKS

Claims 1-20 are currently pending in this application. By this amendment, Claims 1-20 have been canceled and new Claims 21-22 have been added. Upon entry of the amendment, Claims 21-22 will be pending and under consideration. Cancellation of claims is not to be construed as a dedication to the public of any of the subject matter of the claims as previously presented, and Applicants reserve the ability to pursue the canceled claims or similar claims in one or more continuing applications, e.g., continuation, divisional, or continuation-in-part applications.

No Disclaimers or Disavowals

Although the present communication may include alterations to the application or claims, or characterizations of claim scope or referenced art, Applicant is not conceding in this application that previously pending claims are not patentable over the cited references. Rather, any alterations or characterizations are being made to facilitate expeditious prosecution of this application. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the present disclosure, including subject matter found to be specifically disclaimed herein or by any prior prosecution. Accordingly, reviewers of this or any parent, child or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Any remarks in support of patentability of one claim should not be imputed to any other claim, even if similar terminology is used. Any language or remarks referring to only a portion of a claim should not necessarily be understood to base patentability on solely that portion; rather, patentability rests on each claim taken as a whole.

Applicant respectfully submits that to the extent any disclaimers or statements were made previously during prosecution with respect to the scope of the claimed invention, such disclaimers and statements are hereby rescinded.

Applicant respectfully reserves the ability to traverse any of the rejections, assertions and submissions made in connection with the application, even if not discussed herein, including the right to challenge later whether any of the cited references is prior art. The absence of a reply to a specific rejection, issue, or comment does not signify agreement with or concession of that

Abbott Ex. 1003 - 504/875

rejection, issue, or comment. In addition, because any arguments made may not be exhaustive, there may be other reasons that have not been expressed for patentability of any or all claims. When amendments are made to any claims, no acquiescence or estoppel is implied thereby; such amendments are made only to expedite prosecution of the present application and are without prejudice to the presentation or assertion, in the future, of claims directed to subject matter that is same as or similar to that previously presented. Nothing in this paper should be construed as an intent to concede, or actual concession of, any issue with regard to any claim, or to any cited art, except as specifically stated in this paper, and the amendment or cancellation of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment or cancellation.

In the interest of clarity and brevity, every assertion made in the Office Action may not have been equally addressed. Silence regarding any such assertion does not constitute any admission or acquiescence. All rights not exercised in connection with this response, such as the right to challenge or rebut any tacit or explicit characterization of any reference or of any of the present claims, the right to challenge or rebut any asserted factual or legal basis of any of the rejections, the right to swear behind any cited reference such as provided under 37 C.F.R. § 1.131 or otherwise, or the right to assert co-ownership of any cited reference, are reserved. It is not admitted that any of the cited references or any other references of record are relevant to the present claims, or that they constitute prior art. To the extent that any rejection or assertion is based upon the Examiner's personal knowledge, rather than any objective evidence of record as manifested by a cited prior art reference, timely objection to such reliance on Official Notice is made, and all rights to request that the Examiner provide a reference or affidavit in support of such assertion, as required by MPEP § 2144.03, are reserved. All rights to pursue any cancelled claims in a subsequent patent application claiming the benefit of priority of the present patent application, and to request rejoinder of any withdrawn claim, as required by MPEP § 821.04, are likewise reserved.

Conclusion

Should the Examiner have any concerns that might prevent the prompt allowance of the application, the Examiner is respectfully invited to contact the undersigned at the telephone number below.

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Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: January 2, 2020

By: /Rose M. Thiessen/
Rose M. Thiessen
Registration No. 40,202
Registered Practitioner
(858) 707-4000

31952693

Abbott Ex. 1003 - 506/875

Electronic Acknowledgement Receipt

EFS ID:	38184656
Application Number:	16690977
International Application Number:	
Confirmation Number:	3197
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Jack Pryor
Customer Number:	68851
Filer:	Rose M. Thiessen/Melanie Terrazas
Filer Authorized By:	Rose M. Thiessen
Attorney Docket Number:	DEXCOM.053C22
Receipt Date:	02-JAN-2020
Filing Date:	21-NOV-2019
Time Stamp:	15:27:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		053C22_PRELIM.pdf	35135 4a6a8be2a10a3e286e8318a4e7f0b14e72bc8d17	yes	5

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Preliminary Amendment	1	1
	Claims	2	2
	Applicant Arguments/Remarks Made in an Amendment	3	5
Warnings:			
Information:			
	Total Files Size (in bytes):	35135	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/690,977	Filing Date 11/21/2019	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $460 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	01/02/2020	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 2	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/JESSICA T GAYNOR/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/690,977	11/21/2019	Jack Pryor	DEXCOM.053C22	3197

68851 7590 01/22/2020

KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER	
NATNITHITHADHA, NAVIN	

ART UNIT	PAPER NUMBER
3791	

NOTIFICATION DATE	DELIVERY MODE
01/22/2020	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com
jayna.cartee@knobbe.com

Office Action Summary	Application No. 16/690,977	Applicant(s) Pryor et al.	
	Examiner NAVIN NATNITHITHADHA	Art Unit 3791	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 02 January 2020.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 21-22 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 21-22 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 21 November 2019 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Response to Amendment

2. According to the Preliminary Amendment, filed 02 January 2020, the status of the claims is as follows:

Claims 21 and 22 are new; and

Claims 1-20 are cancelled.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. **Claims 21 and 22 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Causey et al, U.S. Patent No. 6,248,067 B1 ("Causey").**

As to Claim 21, Causey teaches the following:

A glucose monitoring system ("Holter-type monitor system") 1 (see "This invention relates to Holter-type monitor systems and, in particular embodiments, to devices and methods for Holter-type monitoring of an analyte sensor to determine a characteristic of a body." in col. 1, ll. 7-10) comprising:

a transcutaneous analyte sensor ("subcutaneous analyte sensor set") 10 (see "The Holter-type monitor system 1, in accordance with a preferred embodiment of the present invention includes a subcutaneous analyte sensor set 10, and a Holter-type recorder 100." in col. 3, ll. 52-55) having an in vivo portion ("needle") 14 (see "The needle 14 is used to facilitate quick and easy subcutaneous placement of the cannula 16 at the subcutaneous insertion site." in col. 5, ll. 18-20) and an ex vivo portion ("mounting base") 30 (see "The sensor 12 is mounted in a mounting base 30 adapted for placement onto the skin of a user." in col. 6, ll. 7-8).

As to Claim 22, Causey teaches the following:

A method for calibrating data from a transcutaneous glucose sensor ("subcutaneous analyte sensor set") 10 (see "This invention relates to Holter-type monitor systems and, in particular embodiments, to devices and methods for Holter-type monitoring of an analyte sensor to determine a characteristic of a body." in col. 1, ll. 7-10; and see "In other embodiments, the Holter-type monitor system may also include the capability to be programmed to take data at specified time intervals or calibrated using an initial data input received from an external device." in col. 3, ll. 39-42), the method comprising:

receiving sensor data from the transcutaneous glucose sensor 10 after the transcutaneous glucose sensor 10 is implanted in a host (see "The Holter-type

recorder 100 takes raw analyte sensor data, such as glucose data or the like, from the subcutaneous analyte sensor set 10 and stores it for later download to the data processor 200, computer, communication station, or the like, which analyzes, displays and logs the received glucose readings." in col. 4, ll. 54-59),

wherein the sensor data is indicative of a glucose concentration in the host (see "In preferred embodiments, the implantable subcutaneous analyte sensor set 10 facilitates accurate placement of a flexible thin film electrochemical sensor 12 of the type used for monitoring specific blood parameters representative of a user's condition. Preferably, the sensor 12 monitors blood glucose levels,..." in col. 5, ll. 27-32); and

processing, using a processor ("data processor") 200, the sensor data received from the transcutaneous glucose sensor 10 (see "The Holter-type recorder 100 takes raw analyte sensor data, such as glucose data or the like, from the subcutaneous analyte sensor set 10 and stores it for later download to the data processor 200, computer, communication station, or the like, which analyzes, displays and logs the received glucose readings." in col. 4, ll. 54-59).

Double Patenting

5. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process... may obtain a patent therefor..." (Emphasis

added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the claims that are directed to the same invention so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

6. **Claims 21 and 22 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 21 and 22 of copending Application No. 16/691,107 (reference application)**. This is a provisional statutory double patenting rejection since the claims directed to the same invention have not in fact been patented.

7. **Claims 21 and 22 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 21 and 22 of copending Application No. 16/691,252 (reference application)**. This is a provisional statutory double patenting rejection since the claims directed to the same invention have not in fact been patented.

8. **Claims 21 and 22 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 21 and 22 of copending Application No. 16/691,325 (reference application)**. This is a provisional statutory double patenting rejection since the claims directed to the same invention have not in fact been patented.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAVIN NATNITHITHADHA whose telephone number is

(571)272-4732. The examiner can normally be reached on Monday - Friday 6:00 am - 8:30 am & 10:30 am - 4:00 pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Chen can be reached on 571-272-3672. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/NAVIN NATNITHITHADHA/
Primary Examiner, Art Unit 3791
01/17/2020

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/690,977	Pryor et al.
	Examiner	Art Unit
	NAVIN NATNITHITHADHA	3791

CPC - Searched*		
Symbol	Date	Examiner
A61B5/14546 OR A61B5/0031 OR A61B5/1451 OR A61B5/14532 OR A61B5/1473 OR A61B5/14865 OR A61B5/1495 OR Y02A90/26 OR A61B5/14503 OR A61B5/1468 OR A61B5/14735 OR A61B5/1486 OR A61B2560/0223	01/15/2020	/NN/

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
600	309,345-366	01/15/2020	

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
EAST (attached): USPAT, US-PGPUB, Inventor, Assignee, Keyword, IDS, USPC, CPC searches	01/15/2020	/NN/

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	A61B5/14546 OR A61B5/0031 OR A61B5/1451 OR A61B5/14532 OR A61B5/1473 OR A61B5/14865 OR A61B5/1495 OR Y02A90/26 OR A61B5/14503 OR A61B5/1468 OR A61B5/14735 OR A61B5/1486 OR A61B2560/0223		/NN/

/N.N/ Primary Examiner, Art Unit 3791	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	54275	(600/309,345-366).CCLS. OR (A61B5/14532 OR A61B5/68335 OR A61B5/0002 OR A61B5/0004 OR A61B5/05 OR A61B5/1411 OR A61B5/14503 OR A61B5/14507 OR A61B5/14514 OR A61B5/14546 OR A61B5/1473 OR A61B5/14735 OR A61B5/1486 OR A61B5/14865 OR A61B5/1495 OR A61B5/6801 OR A61B5/6833 OR A61B5/6848 OR A61B5/6849 OR A61B5/72 OR A61B17/3468 OR Y02A90/26 OR A61B5/14 OR A61B5/145 OR A61B5/1468 OR A61B5/150022 OR A61B2017/3492 OR A61B2560/0223 OR A61B2560/045 OR A61B2562/18 OR A61M5/14244 OR A61M5/1723 OR A61M2005/1585).CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/16 13:28
S2	3097	(DexCom).AS. OR ((Simpson NEAR2 Peter) OR (Brister NEAR2 Mark) OR (Wightlin NEAR2 Matthew)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/16 13:29
S3	1	("6175752").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/16 13:30
S4	0	(minimed OR medtronic).as. AND mastrotaro.inv. AND S1	US-PGPUB; USPAT; USOCR	OR	ON	2020/01/16 13:35
S5	117	(minimed OR medtronic).as. AND mastrototaro.inv. AND S1	US-PGPUB; USPAT; USOCR	OR	ON	2020/01/16 13:35
S6	31321	(600/309,345-366).CCLS. OR (A61B5/14546 OR A61B5/0031 OR A61B5/1451 OR A61B5/14532 OR A61B5/1473 OR A61B5/14865 OR A61B5/1495 OR Y02A90/26 OR A61B5/14503 OR A61B5/1468 OR A61B5/14735 OR A61B5/1486 OR A61B2560/0223).CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/01/17 09:19
S7	1	(US-6248067-$).did.	USPAT	OR	ON	2020/01/17 09:26
S8	1	S7 AND calibrat$4	US-PGPUB; USPAT; USOCR	OR	ON	2020/01/17 09:26

1/ 17/ 2020 9:30:48 AM
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US-RE31916	06-18-1985	OSWIN; Harry G. et al.	
	002	US-RE32361	02-24-1987	DUGGAN; Stephen R.	
	003	US-RE36991	12-19-2000	YAMAMOTO; Tomohiro et al.	
	004	US-RE43039	12-20-2011	BRISTER; Mark et al.	
	005	US-1498738	06-24-1924	LAHOUSSE; Joseph Edouard Gustave. et al.	
	006	US-1564641	12-08-1925	ROBERT ST; James T. et al.	
	007	US-1726766	09-03-1929	RECTOR; Thomas M. et al.	
	008	US-2057029	10-13-1936	JOHNSTONE; Robert Mcc.	
	009	US-2402306	06-18-1946	HENRY; Turkel et al.	
	010	US-2497894	02-21-1950	CLARE; Luke et al.	
	011	US-2719797	10-04-1955	ROSENBLATT; Edgar F. et al.	
	012	US-2882696	04-21-1959	HERRMANN; Bernard L. et al.	
	013	US-2910256	10-27-1959	RICHARD; Leidolf et al.	
	014	US-3022639	02-27-1962	BROWN; Carl E. et al.	
	015	US-3210578	10-05-1965	SHERER; Glen H.	
	016	US-3218819	11-23-1965	CROTSER; Frank P. et al.	
	017	US-3219533	11-23-1965	MULLINS; John D.	
	018	US-3381371	05-07-1968	RUSSELL; Earl D. et al.	
	019	US-3506032	04-14-1970	EVELEIGH; John William et al.	

Examiner Signature		Date Considered	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	020	US-3539455	11-10-1970	CLARK Jr.; Leland C. et al.	
	021	US-3556950	01-19-1971	DAHMS; Harald et al.	
	022	US-3562352	02-09-1971	NYILAS; Emery.	
	023	US-3581062	05-25-1971	ASTON; Keith.	
	024	US-3607329	09-21-1971	MANJIKIAN; Serop.	
	025	US-3610226	10-05-1971	ALBISSER; Anthony M. et al.	
	026	US-3652475	03-28-1972	WADA; Tadashi et al.	
	027	US-3728678	04-17-1973	TONG; S.Y.	
	028	US-3775182	11-27-1973	PATTON; Jimmie Donald. et al.	
	029	US-3780727	12-25-1973	KING; Eugene.	
	030	US-3791871	02-12-1974	ROWLEY; Leroy S.	
	031	US-3826244	07-30-1974	SALCMAN; Michael. et al.	
	032	US-3837339	09-24-1974	AISENBERG; Sol. et al.	
	033	US-3838033	09-24-1974	MINDT; Wolfgang. et al.	
	034	US-3838682	10-01-1974	CLARK; Justin S. et al.	
	035	US-3872455	03-18-1975	FULLER; Charles H. et al.	
	036	US-3874850	04-01-1975	SORENSEN; Soren Kai et al.	
	037	US-3882011	05-06-1975	HINES; Theodore G. et al.	
	038	US-3898984	08-12-1975	MANDEL; Louis et al.	
	039	US-3910256	10-07-1975	CLARK; Justin S. et al.	

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First Named Inventor	PRYOR; Jack
Art Unit	3791
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Attorney Docket Number	DEXCOM.053C22

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	040	US-3926760	12-16-1975	ALLEN; James S. et al.	
	041	US-3929971	12-30-1975	ROY; Della M. et al.	
	042	US-3930462	01-06-1976	DAY; Edward G. et al.	
	043	US-3933593	01-20-1976	STERNBERG; James C. et al.	
	044	US-3943918	03-16-1976	LEWIS; Ronald A. et al.	
	045	US-3949388	04-06-1976	FULLER; Charles H. et al.	
	046	US-3957613	05-18-1976	MACUR; Robert A.	
	047	US-3957651	05-18-1976	KESTING; Robert E. et al.	
	048	US-3964974	06-22-1976	BANAUCH; Dieter et al.	
	049	US-3966580	06-29-1976	JANATA; Jiri A. et al.	
	050	US-3978684	09-07-1976	TAYLOR; David H. et al.	
	051	US-3979274	09-07-1976	NEWMAN; David P.	
	052	US-3982530	09-28-1976	STORCH; Egon et al.	
	053	US-4003621	01-18-1977	LAMP; Richard W. et al.	
	054	US-4008717	02-22-1977	KOWARSKI; Allen A. et al.	
	055	US-4016866	04-12-1977	LAWTON; Richard W. et al.	
	056	US-4024312	05-17-1977	KORPMAN; Ralf et al.	
	057	US-4036749	07-19-1977	ANDERSON; Donald R.	
	058	US-4037563	07-26-1977	PFLUEGER; John M. et al.	
	059	US-4040908	08-09-1977	CLARK Jr.; Leland C. et al.	
	060	US-4052754	10-11-1977	HOMSY; Charles A. et al.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	061	US-4055175	10-25-1977	CLEMENS; Anton Hubert et al.	
	062	US-4067322	01-10-1978	JOHNSON; Joseph H. et al.	
	063	US-4068660	01-17-1978	BECK; Richard William et al.	
	064	US-4073713	02-14-1978	NEWMAN; David P.	
	065	US-4076656	02-28-1978	WHITE; Leroy A. et al.	
	066	US-4101395	07-18-1978	MOTANI; Kensuke et al.	
	067	US-4109505	08-29-1978	CLARK; Justin S. et al.	
	068	US-4110997	09-05-1978	KLOTZ; Michael C. et al.	
	069	US-4116920	09-26-1978	HONMA; Hiroshi et al.	
	070	US-4119406	10-10-1978	CLEMENS; Anton Hubert et al.	
	071	US-4129128	12-12-1978	MCFARLANE; Richard H.	
	072	US-4151845	05-01-1979	CLEMENS; Anton H.	
	073	US-4172770	10-30-1979	SEMERSKY; Frank E. et al.	
	074	US-4176659	12-04-1979	ROLFE; Peter	
	075	US-4187390	02-05-1980	GORE; Robert W.	
	076	US-4197840	04-15-1980	BECK; Alexander et al.	
	077	US-4197852	04-15-1980	SCHINDLER; Johannes G. et al.	
	078	US-4206755	06-10-1980	KLEIN; Jean-Claude	
	079	US-4215703	08-05-1980	WILLSON; James K V.	
	080	US-4225410	09-30-1980	PACE; Salvatore J. et al.	

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	081	US-4230118	10-28-1980	HOLMAN; Rury R. et al.	
	082	US-4240438	12-23-1980	SHULTS; Mark C. et al.	
	083	US-4240889	12-23-1980	YODA; Kentaro. et al	
	084	US-4245634	01-20-1981	ALBISSER; Anthony M. et al.	
	085	US-4248246	02-03-1981	IKEDA; Tatsuhiko	
	086	US-4253469	03-03-1981	ASLAN; Edward E. et al.	
	087	US-4255500	03-10-1981	HOOKE; John W. et al.	
	088	US-4259540	03-31-1981	SABIA; Raffaele A. et al.	
	089	US-4260725	04-07-1981	KEOGH; Philip L. et al.	
	090	US-4260726	04-07-1981	DEUBZER; Bernward et al.	
	091	US-4265249	05-05-1981	SCHINDLER; Johannes G. et al.	
	092	US-4286039	08-25-1981	LANDA; Benzion et al.	
	093	US-4319578	03-16-1982	ENGER; Carl C. et al.	
	094	US-4324256	04-13-1982	VESTERAGER; Peter K R. et al.	
	095	US-4324257	04-13-1982	ALBARDA; Scato et al.	
	096	US-4327725	05-04-1982	CORTESE; Richard et al.	
	097	US-4344438	08-17-1982	SCHULTZ; Jerome S.	
	098	US-4349728	09-14-1982	PHILLIPS; Robert B. et al.	
	099	US-4353368	10-12-1982	SLOVAK; Petr et al.	
	100	US-4353888	10-12-1982	SEFTON; Michael V. et al.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	101	US-4366040	12-28-1982	MARSONER; Hermann et al.	
	102	US-4369785	01-25-1983	REHKOPF; Paul G. et al.	
	103	US-4374013	02-15-1983	ENFORS; Sven-Olof	
	104	US-4378016	03-29-1983	LOEB; Marvin P. et al.	
	105	US-4388166	06-14-1983	SUZUKI; Shuichi et al.	
	106	US-4402694	09-06-1983	ASH; Stephen R. et al.	
	107	US-4403847	09-13-1983	CHRESTENSEN; Gene L.	
	108	US-4403984	09-13-1983	ASH; Stephen R. et al.	
	109	US-4415666	11-15-1983	D'ORAZIO; Paul A. et al.	
	110	US-4418148	11-29-1983	OBERHARDT; Bruce J.	
	111	US-4419535	12-06-1983	O'HARA; Robert J.	
	112	US-4425920	01-17-1984	BOURLAND; Joe D. et al.	
	113	US-4431004	02-14-1984	BESSMAN; Samuel P. et al.	
	114	US-4431507	02-14-1984	NANKAI; Shiro et al.	
	115	US-4432366	02-21-1984	MARGULES; Gary S.	
	116	US-4436094	03-13-1984	CERAMI; Anthony	
	117	US-4442841	04-17-1984	UEHARA; Masaru et al.	
	118	US-4453537	06-12-1984	SPITZER; Daniel E.	
	119	US-4454295	06-12-1984	WITTMANN; Joseph W. et al.	
	120	US-4457339	07-03-1984	JUAN; Juan J S. et al.	
	121	US-4469110	09-04-1984	SLAMA; Gerard J.	

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Art Unit	3791
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	122	US-4477314	10-16-1984	RICHTER; Gerhard et al.	
	123	US-4478222	10-23-1984	KONING; Gerrit et al.	
	124	US-4478976	10-23-1984	GOERTZ; Hans-Helmut et al.	
	125	US-4484987	11-27-1984	GOUGH; David A.	
	126	US-4486290	12-04-1984	CAHALAN; Patrick T. et al.	
	127	US-4492575	01-08-1985	MABILLE; Pierre	
	128	US-4493714	01-15-1985	UEDA; Fumio et al.	
	129	US-4494950	01-22-1985	FISCHELL; Robert E.	
	130	US-4506680	03-26-1985	STOKES; Kenneth B.	
	131	US-4509531	04-09-1985	WARD; John W.	
	132	US-4519973	05-28-1985	CAHALAN; Patrick T. et al.	
	133	US-4526569	07-02-1985	BERNARDI; Luigi	
	134	US-4527240	07-02-1985	KVITASH; Vadim I.	
	135	US-4527999	07-09-1985	LEE; Cheng H.	
	136	US-4534355	08-13-1985	POTTER; William D.	
	137	US-4534825	08-13-1985	KONING; Gerrit et al.	
	138	US-4535786	08-20-1985	KATER; John A R.	
	139	US-4538616	09-03-1985	ROGOFF; Robert	
	140	US-4545382	10-08-1985	HIGGINS; Irving J. et al.	
	141	US-4554927	11-26-1985	FUSSELL; Theodore J.	
	142	US-4561963	12-31-1985	OWEN; Jeffrey D. et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	143	US-4565665	01-21-1986	FOGT; Eric J.	
	144	US-4565666	01-21-1986	CAHALAN; Patrick T. et al.	
	145	US-4568444	02-04-1986	NAKAMURA; Michihiro et al.	
	146	US-4571292	02-18-1986	LIU; Chung-Chiun et al.	
	147	US-4573968	03-04-1986	PARKER; Kenneth B.	
	148	US-4577642	03-25-1986	STOKES; Kenneth B.	
	149	US-4578215	03-25-1986	BRADLEY; Robert F.	
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	151	US-4583976	04-22-1986	FERGUSON; Keith T.	
	152	US-4592824	06-03-1986	SMITH; Rosemary L. et al.	
	153	US-4600495	07-15-1986	FOGT; Eric J.	
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	155	US-4603152	07-29-1986	LAURIN; Dean et al.	
	156	US-4614514	09-30-1986	CARR; Kenneth L. et al.	
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	158	US-4625730	12-02-1986	FOUNTAIN; Glen H. et al.	
	159	US-4626104	12-02-1986	POINTON; Ronald H. et al.	
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	161	US-4650547	03-17-1987	GOUGH; David A.	
	162	US-4655880	04-07-1987	LIU; Chung-Chiun	
	163	US-4663824	05-12-1987	KENMOCHI; Kazuei	

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	164	US-4671288	06-09-1987	GOUGH; David A.	
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	166	US-4675346	06-23-1987	LIN; Samuel Q S. et al.	
	167	US-4680268	07-14-1987	CLARK Jr.; Leland C.	
	168	US-4684538	08-04-1987	KLEMARCZYK; Philip T.	
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	174	US-4689309	08-25-1987	JONES; James E.	
	175	US-4694861	09-22-1987	GOODALE; David L. et al.	
	176	US-4703756	11-03-1987	GOUGH; David A. et al.	
	177	US-4703989	11-03-1987	PRICE; James R. et al.	
	178	US-4705503	11-10-1987	DORMAN; Frank D. et al.	
	179	US-4711245	12-08-1987	HIGGINS; Irving J. et al.	
	180	US-4711251	12-08-1987	STOKES; Kenneth B.	
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	183	US-4731726	03-15-1988	ALLEN III; Lyle M.	
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First Named Inventor	PRYOR; Jack
Art Unit	3791
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Attorney Docket Number	DEXCOM.053C22

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	186	US-4739380	04-19-1988	LAUKS; Imants R. et al.	
	187	US-4747822	05-31-1988	PEABODY; Alan M.	
	188	US-4749985	06-07-1988	CORSBERG; Daniel R.	
	189	US-4750496	06-14-1988	REINHART; Richard et al.	
	190	US-4752935	06-21-1988	BECK; Rasmus	
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	200	US-4779618	10-25-1988	MUND; Konrad et al.	
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	206	US-4789467	12-06-1988	LINDSAY; Edward R. et al.	
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	208	US-4793555	12-27-1988	LEE; Chi-Long et al.	
	209	US-4795435	01-03-1989	STEER; Peter L.	
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	211	US-4803243	02-07-1989	FUJIMOTO; Teruo et al.	
	212	US-4805624	02-21-1989	YAO; Shang J. et al.	
	213	US-4805625	02-21-1989	WYLER; Allen R.	
	214	US-4807632	02-28-1989	LIESS; Hans D. et al.	
	215	US-4808089	02-28-1989	BUCHHOLTZ; Gerhard et al.	
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	220	US-4813424	03-21-1989	WILKINS; Ebtisam S.	
	221	US-4815471	03-28-1989	STOBIE; John J.	
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	223	US-4822336	04-18-1989	DITRAGLIA; John	
	224	US-4826706	05-02-1989	HILKER; G. Daniel.	
	225	US-4828544	05-09-1989	LANE; Rodney J. et al.	
	226	US-4830013	05-16-1989	MAXWELL; Thomas P.	
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	230	US-4834101	05-30-1989	COLLISON; Michael E. et al.	
	231	US-4838281	06-13-1989	ROGERS; Wayne W. et al.	
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	233	US-4849458	07-18-1989	REED; Andrew M. et al.	
	234	US-4852573	08-01-1989	KENNEDY; Philip R.	
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	253	US-4907857	03-13-1990	GIULIANI; David et al.	
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	255	US-4909908	03-20-1990	ROSS; Pepi et al.	
	256	US-4919114	04-24-1990	MIYAZAKI; Atsushi	
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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	273	US-4951669	08-28-1990	MAXWELL; Thomas P. et al.	
	274	US-4952618	08-28-1990	OLSEN; Roger A.	
	275	US-4953552	09-04-1990	DEMARZO; Arthur P.	
	276	US-4955861	09-11-1990	ENEGREN; Bradley J. et al.	
	277	US-4957483	09-18-1990	GONSER I; Donald et al.	
	278	US-4958148	09-18-1990	OLSON; Jan B.	
	279	US-4960594	10-02-1990	HONEYCUTT; Travis W.	
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	281	US-4963595	10-16-1990	WARD; Robert S. et al.	
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	283	US-4967940	11-06-1990	BLETTE; Russell E. et al.	
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	285	US-4974592	12-04-1990	BRANCO; Flavio S C.	
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	290	US-4979509	12-25-1990	HAKKY; Said I.	
	291	US-4984929	01-15-1991	ROECK; Erich et al.	
	292	US-4986271	01-22-1991	WILKINS; Ebtisam S.	
	293	US-4986671	01-22-1991	SUN; Mei H. et al.	

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	294	US-4988341	01-29-1991	COLUMBUS; Richard L. et al.	
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	299	US-4994026	02-19-1991	FECONDINI; Luciano	
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	302	US-4997627	03-05-1991	BERGKUIST; Carolyn et al.	
	303	US-5000180	03-19-1991	KUYPERS; Martinus H. et al.	
	304	US-5000194	03-19-1991	VAN DEN HONERT; Christopher. et al.	
	305	US-5002054	03-26-1991	ASH; Stephen R. et al.	
	306	US-5002055	03-26-1991	MERKI; Hans S. et al.	
	307	US-5002572	03-26-1991	PICHA; George J.	
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	311	US-5007929	04-16-1991	QUAID; Joel	
	312	US-5009251	04-23-1991	PIKE; Kelly A. et al.	
	313	US-5019096	05-28-1991	FOX Jr.; Charles L. et al.	

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Attorney Docket Number	DEXCOM.053C22

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	314	US-5019974	05-28-1991	BECKERS; Andreas G F.	
	315	US-5026348	06-25-1991	VENEGAS; Jose G.	
	316	US-5030199	07-09-1991	BARWICK; Carl B. et al.	
	317	US-5030310	07-09-1991	WOGOMAN; Frank W.	
	318	US-5030333	07-09-1991	CLARK Jr.; Leland C.	
	319	US-5034112	07-23-1991	MURASE; Isao et al.	
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	321	US-5037497	08-06-1991	STYPULKOWSKI; Paul H.	
	322	US-5041092	08-20-1991	BARWICK; Carl	
	323	US-5045057	09-03-1991	VAN DRIESSCHE; Petrus J D M. et al.	
	324	US-5045601	09-03-1991	CAPELLI; Christopher C. et al.	
	325	US-5046496	09-10-1991	BETTS; Ronald E. et al.	
	326	US-5048525	09-17-1991	MAXWELL; Thomas P.	
	327	US-5050612	09-24-1991	MATSUMURA; Kenneth N.	
	328	US-5055171	10-08-1991	PECK; Robert L.	
	329	US-5055198	10-08-1991	SHETTIGAR; U. Ramakrishna.	
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	332	US-5067491	11-26-1991	TAYLOR II; Maylon S. et al.	
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	334	US-5077476	12-31-1991	ROSENTHAL; Robert D.	
	335	US-5082550	01-21-1992	RISHPON; Judith et al.	
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	339	US-5096669	03-17-1992	LAUKS; Imants R. et al.	
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	342	US-5101814	04-07-1992	PALTI; Yoram	
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	344	US-5108819	04-28-1992	HELLER; James W. et al.	
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	347	US-5116313	05-26-1992	MCGREGOR; Gavin	
	348	US-5120420	06-09-1992	NANKAI; Shiro et al.	
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	355	US-5137028	08-11-1992	NISHIMURA; Kinji	
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	396	US-5246867	09-21-1993	LAKOWICZ; Joseph R. et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	397	US-5249576	10-05-1993	GOLDBERGER; Daniel S. et al.	
	398	US-5250439	10-05-1993	MUSHO; Matthew K. et al.	
	399	US-5254102	10-19-1993	OGAWA; Genshiro	
	400	US-5261892	11-16-1993	BERTAUD; Francois X. et al.	
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	403	US-5264104	11-23-1993	GREGG; Brian A. et al.	
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	409	US-5271736	12-21-1993	PICHA; George J.	
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	415	US-5284140	02-08-1994	ALLEN; Douglas J. et al.	
	416	US-5284570	02-08-1994	SAVAGE; Douglas R. et al.	

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	417	US-5285513	02-08-1994	KAUFMAN; Stanley et al.	
	418	US-5285792	02-15-1994	SJOQUIST; Steven E. et al.	
	419	US-5286364	02-15-1994	YACYNYCH; Alexander M. et al.	
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	426	US-5302093	04-12-1994	OWENS; Dana J. et al.	
	427	US-5302440	04-12-1994	DAVIS; Elbert	
	428	US-5304468	04-19-1994	PHILLIPS; Roger et al.	
	429	US-5307263	04-26-1994	BROWN; Stephen J.	
	430	US-5310469	05-10-1994	CUNNINGHAM; David D. et al.	
	431	US-5311908	05-17-1994	BARONE; David et al.	
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	434	US-5316008	05-31-1994	SUGA; Fusao et al.	
	435	US-5316452	05-31-1994	BOGEN; Steven A. et al.	
	436	US-5318511	06-07-1994	RIQUIER; Jean-Claude et al.	

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First Named Inventor	PRYOR; Jack
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Attorney Docket Number	DEXCOM.053C22

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	437	US-5320725	06-14-1994	GREGG; Brian A. et al.	
	438	US-5322063	06-21-1994	ALLEN; Douglas J. et al.	
	439	US-5324322	06-28-1994	GRILL Jr.; Warren M. et al.	
	440	US-5326356	07-05-1994	DELLA VALLE; Francesco. et al.	
	441	US-5326449	07-05-1994	CUNNINGHAM; David D.	
	442	US-5328451	07-12-1994	DAVIS; Charles P. et al.	
	443	US-5330521	07-19-1994	COHEN; Donald M.	
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	446	US-5335658	08-09-1994	BEDINGHAM; William	
	447	US-5336102	08-09-1994	CAIRNS; Thomas M. et al.	
	448	US-5337747	08-16-1994	NEFTEL; Frederic	
	449	US-5340352	08-23-1994	NAKANISHI; Motoyasu et al.	
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	455	US-5344454	09-06-1994	CLARKE; Robert A. et al.	
	456	US-5345932	09-13-1994	YAFUSO; Masao et al.	
	457	US-5348788	09-20-1994	WHITE; Eugene W.	

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	458	US-5352348	10-04-1994	YOUNG; Chung Chang et al.	
	459	US-5352351	10-04-1994	WHITE; Bradley E. et al.	
	460	US-5354272	10-11-1994	SWENDSON; David L. et al.	
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	462	US-5356375	10-18-1994	HIGLEY; Robert E.	
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	467	US-5362761	11-08-1994	URAGAMI; Tadashi et al.	
	468	US-5368028	11-29-1994	PALTI; Yoram	
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	471	US-5372133	12-13-1994	HOGEN ESCH; Johannes H. L. et al.	
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	478	US-5379238	01-03-1995	STARK; Edward W.	
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	486	US-5387327	02-07-1995	KHAN; Shahed U M.	
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	496	US-5411647	05-02-1995	JOHNSON; Kirk W. et al.	
	497	US-5411866	05-02-1995	LUONG; John H T. et al.	
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	503	US-5423738	06-13-1995	ROBINSON; Thomas C. et al.	
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	505	US-5425717	06-20-1995	MOHIUDDIN; Mahmood	
	506	US-5426032	06-20-1995	PHILLIPS; Roger et al.	
	507	US-5428123	06-27-1995	WARD; Robert S. et al.	
	508	US-5429129	07-04-1995	LOVEJOY; David A. et al.	
	509	US-5429485	07-04-1995	DODGE; Larry H.	
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	512	US-5431160	07-11-1995	WILKINS; Ebtisam S.	
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	518	US-5438984	08-08-1995	SCHOENDORFER; Donald W.	
	519	US-5445610	08-29-1995	EVERT; Carl F.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	520	US-5448992	09-12-1995	KUPERSHMIDT; Vladimir	
	521	US-5451260	09-19-1995	VERSTEEG; Vera A. et al.	
	522	US-5453199	09-26-1995	AFEYAN; Noubar B. et al.	
	523	US-5453278	09-26-1995	CHAN; Eddie K M. et al.	
	524	US-5458631	10-17-1995	XAVIER; Ravi	
	525	US-5462051	10-31-1995	OKA; Tohru et al.	
	526	US-5462064	10-31-1995	D'ANGELO; Joseph P. et al.	
	527	US-5462645	10-31-1995	ALBERY; John W. et al.	
	528	US-5466356	11-14-1995	SCHNEIDER; Alan A. et al.	
	529	US-5466575	11-14-1995	COZZETTE; Stephen N. et al.	
	530	US-5469846	11-28-1995	KHAN; Shahed U M.	
	531	US-5472317	12-05-1995	FIELD; Jeffrey F. et al.	
	532	US-5474552	12-12-1995	PALTI; Yoram	
	533	US-5476094	12-19-1995	ALLEN; Douglas J. et al.	
	534	US-5476776	12-19-1995	WILKINS; Ebtisam S.	
	535	US-5480711	01-02-1996	RUEFER; Bruce G.	
	536	US-5482008	01-09-1996	STAFFORD; Rodney A. et al.	
	537	US-5482446	01-09-1996	WILLIAMSON; Mark E. et al.	
	538	US-5482473	01-09-1996	LORD; Peter C. et al.	
	539	US-5484404	01-16-1996	SCHULMAN; Joseph H. et al.	

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	540	US-5486776	01-23-1996	CHIANG; David	
	541	US-5489414	02-06-1996	SCHREIBER; Joerg et al.	
	542	US-5490323	02-13-1996	THACKER; James R. et al.	
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	547	US-5502396	03-26-1996	DESARZENS; Pierre et al.	
	548	US-5505828	04-09-1996	WONG; David K. et al.	
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	550	US-5508203	04-16-1996	FULLER; Milton E. et al.	
	551	US-5508509	04-16-1996	YAFUSO; Masao et al.	
	552	US-5509410	04-23-1996	HILL; Hugh A O. et al.	
	553	US-5509888	04-23-1996	MILLER; Paul L.	
	554	US-5512046	04-30-1996	PUSINELLI; Thomas et al.	
	555	US-5512248	04-30-1996	VAN; Jack F J.	
	556	US-5513636	05-07-1996	PALTI; Yoram	
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	559	US-5515851	05-14-1996	GOLDSTEIN; James A.	
	560	US-5516832	05-14-1996	KENNAN; Linda D. et al.	

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	561	US-5518601	05-21-1996	FOOS; Joseph S. et al.	
	562	US-5527288	06-18-1996	GROSS; Joseph et al.	
	563	US-5529066	06-25-1996	PALTI; Yoram	
	564	US-5529676	06-25-1996	MALEY; Thomas C. et al.	
	565	US-5531679	07-02-1996	SCHULMAN; Joseph H. et al.	
	566	US-5531878	07-02-1996	VADGAMA; Pankaj M. et al.	
	567	US-5540828	07-30-1996	YACYNYCH; Alexander	
	568	US-5545200	08-13-1996	WEST; Scott H. et al.	
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	570	US-5545223	08-13-1996	NEUENFELDT; Steven et al.	
	571	US-5549547	08-27-1996	COHEN; Herbert et al.	
	572	US-5549548	08-27-1996	LARSSON; Rolf	
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	578	US-5553616	09-10-1996	HAM; Fredric M. et al.	
	579	US-5554339	09-10-1996	COZZETTE; Stephen N. et al.	
	580	US-5558957	09-24-1996	DATTA; Madhav et al.	

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	581	US-5562614	10-08-1996	O'DONNELL; Joseph A.	
	582	US-5562615	10-08-1996	NASSIF; George A.	
	583	US-5564439	10-15-1996	PICHA; George J.	
	584	US-5568806	10-29-1996	CHENEY II; Paul S. et al.	
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	589	US-5571395	11-05-1996	PARK; Je Kyun et al.	
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	593	US-5582184	12-10-1996	ERICKSON; Brian J. et al.	
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	595	US-5582593	12-10-1996	HULTMAN; Barry W.	
	596	US-5582697	12-10-1996	IKEDA; Shin et al.	
	597	US-5584813	12-17-1996	LIVINGSTON; John H. et al.	
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	599	US-5586553	12-24-1996	HALILI; Edgardo C. et al.	
	600	US-5587273	12-24-1996	YAN; Mingdi et al.	
	601	US-5588560	12-31-1996	BENEDICT; Dale G. et al.	

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	602	US-5589133	12-31-1996	SUZUKI; Hiroaki	
	603	US-5589563	12-31-1996	WARD; Robert S. et al.	
	604	US-5590651	01-07-1997	SHAFFER; Thomas H. et al.	
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	606	US-5593852	01-14-1997	HELLER; Adam et al.	
	607	US-5601435	02-11-1997	QUY; Roger J.	
	608	US-5607565	03-04-1997	AZARNIA; Roobik et al.	
	609	US-5609572	03-11-1997	LANG; Volker	
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	612	US-5624409	04-29-1997	SEALE; Joseph B.	
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	614	US-5626561	05-06-1997	BUTLER; Mark D. et al.	
	615	US-5626563	05-06-1997	DODGE; Larry H. et al.	
	616	US-5628310	05-13-1997	RAO; Govind et al.	
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	619	US-5630978	05-20-1997	DOMB; Abraham J.	
	620	US-5637083	06-10-1997	BERTRAND; William J. et al.	
	621	US-5637135	06-10-1997	OTTENSTEIN; Daniel M. et al.	
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	624	US-5643195	07-01-1997	DREVET; Jean-Baptiste et al.	
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	641	US-5673694	10-07-1997	RIVERS; Emanuel Phillip	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	642	US-5676651	10-14-1997	LARSON Jr.; Carl O. et al.	
	643	US-5676820	10-14-1997	WANG; Joseph et al.	
	644	US-5681572	10-28-1997	SEARE Jr.; William J.	
	645	US-5682884	11-04-1997	HILL; Hugh Allen Oliver et al.	
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	647	US-5686829	11-11-1997	GIRAULT; Hubert	
	648	US-5688239	11-18-1997	WALKER; Frank J.	
	649	US-5688244	11-18-1997	LANG; Volker	
	650	US-5690119	11-25-1997	RYTKY; Pekka et al.	
	651	US-5695623	12-09-1997	MICHEL; Peter et al.	
	652	US-5696314	12-09-1997	MCCAFFREY; Robert et al.	
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	659	US-5707502	01-13-1998	MCCAFFREY; Robert et al.	
	660	US-5711001	01-20-1998	BUSSAN; Christopher F. et al.	
	661	US-5711302	01-27-1998	LAMPROPOULOS; Fred P. et al.	

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	662	US-5711685	01-27-1998	WOOD; Richard G.	
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	674	US-5741330	04-21-1998	BRAUKER; James H. et al.	
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	679	US-5749907	05-12-1998	MANN; Brian M.	
	680	US-5755692	05-26-1998	MANICOM; Anthony William	
	681	US-5756632	05-26-1998	WARD; Robert S. et al.	
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	683	US-5763760	06-09-1998	GUMBRECHT; Walter et al.	
	684	US-5763787	06-09-1998	GRAVEL; James L. et al.	
	685	US-5766151	06-16-1998	VALLEY; Kirsten L. et al.	
	686	US-5770028	06-23-1998	MALEY; Thomas C. et al.	
	687	US-5771890	06-30-1998	TAMADA; Janet	
	688	US-5772586	06-30-1998	HEINONEN; Pekka et al.	
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	691	US-5776324	07-07-1998	USALA; Anton-Lewis	
	692	US-5777060	07-07-1998	VAN ANTWERP; William Peter.	
	693	US-5779665	07-14-1998	MASTROTOTARO; John J. et al.	
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	703	US-5795774	08-18-1998	MATSUMOTO; Toru et al.	
	704	US-5798065	08-25-1998	PICHA; George J.	
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	706	US-5800383	09-01-1998	CHANDLER; W. Jeffrey. et al.	
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	722	US-5822715	10-13-1998	WORTHINGTON; David R L. et al.	
	723	US-5823802	10-20-1998	BARTLEY; Robert Michael	
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	762	US-5904666	05-18-1999	DEDECKER; Paul G. et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	763	US-5904708	05-18-1999	GOEDEKE; Steven D.	
	764	US-5910554	06-08-1999	KEMPE; Maria et al.	
	765	US-5911219	06-15-1999	AYLSWORTH; Alonzo C. et al.	
	766	US-5913998	06-22-1999	BUTLER; Mark D. et al.	
	767	US-5914026	06-22-1999	BLUBAUGH Jr.; Elmo A. et al.	
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	769	US-5916445	06-29-1999	HJERTEN; Stellan et al.	
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	773	US-5925021	07-20-1999	CASTELLANO; Thomas P. et al.	
	774	US-5928130	07-27-1999	SCHMIDT; Bruno	
	775	US-5928155	07-27-1999	EGGERS; Philip E. et al.	
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	780	US-5932175	08-03-1999	KNUTE; Wallace L. et al.	
	781	US-5933136	08-03-1999	BROWN; Stephen J.	
	782	US-5935785	08-10-1999	REBER; William L. et al.	

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	783	US-5938636	08-17-1999	KRAMER; George C. et al.	
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	785	US-5942979	08-24-1999	LUPPINO; Richard	
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	792	US-5954954	09-21-1999	HOUCK; Raymond K. et al.	
	793	US-5957854	09-28-1999	BESSON; Marcus et al.	
	794	US-5957903	09-28-1999	MIRZAEE; Daryush et al.	
	795	US-5959050	09-28-1999	MOSBACH; Klaus et al.	
	796	US-5961451	10-05-1999	REBER; William L. et al.	
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	798	US-5964261	10-12-1999	NEUENFELDT; Steven et al.	
	799	US-5964745	10-12-1999	LYLES; Mark B. et al.	
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	802	US-5965125	10-12-1999	MINEAU-HANSCHKE ROCHELLE.	

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	803	US-5965380	10-12-1999	HELLER; Adam et al.	
	804	US-5967986	10-19-1999	CIMOCHOWSKI; George E. et al.	
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	806	US-5972199	10-26-1999	HELLER; Adam et al.	
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	808	US-5977241	11-02-1999	KOLOSKI; Timothy S. et al.	
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	811	US-5987352	11-16-1999	KLEIN; George J. et al.	
	812	US-5989409	11-23-1999	KURNIK; Ronald T. et al.	
	813	US-5995208	11-30-1999	SARGE; Jeffrey A. et al.	
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	822	US-6011984	01-04-2000	VAN ANTWERP; William Peter. et al.	
	823	US-6013113	01-11-2000	MIKA; Mark L.	

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	824	US-6014577	01-11-2000	HENNING; Timothy P. et al.	
	825	US-6015392	01-18-2000	DOUGLAS; Joel S. et al.	
	826	US-6015572	01-18-2000	LIN; Leu-Fen H. et al.	
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	830	US-6023629	02-08-2000	TAMADA; Janet	
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	837	US-6036924	03-14-2000	SIMONS; Tad Decatur et al.	
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	840	US-6048691	04-11-2000	MARACAS; George N.	
	841	US-6049727	04-11-2000	CROTHALL; Katherine D.	
	842	US-6051372	04-18-2000	BAYERL; Thomas et al.	
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	844	US-6057377	05-02-2000	SASAKI; Darryl Y. et al.	
	845	US-6059946	05-09-2000	YUKAWA; Keiko. et al.	
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	858	US-6081735	06-27-2000	DIAB; Mohamed K. et al.	
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	861	US-6083523	07-04-2000	DIONNE; Keith E. et al.	
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	883	US-6122536	09-19-2000	SUN; Xiaoguong et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	884	US-6123827	09-26-2000	WONG; David K. et al.	
	885	US-6127154	10-03-2000	MOSBACH; Klaus et al.	
	886	US-6128519	10-03-2000	SAY; James I.	
	887	US-6134461	10-17-2000	SAY; James et al.	
	888	US-6135978	10-24-2000	HOUBEN; Richard P M. et al.	
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	917	US-6198969	03-06-2001	KUZMA; Janusz A.	
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	922	US-6201993	03-13-2001	KRUSE; John M. et al.	
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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	924	US-6208894	03-27-2001	SCHULMAN; Joseph H. et al.	
	925	US-6212416	04-03-2001	WARD; W. Kenneth. et al.	
	926	US-6212424	04-03-2001	ROBINSON; Mark Ries	
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	931	US-6223080	04-24-2001	THOMPSON; David L.	
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	944	US-6254586	07-03-2001	MANN; Alfred E. et al.	
	945	US-6255592	07-03-2001	PENNINGTON; Barry et al.	
	946	US-6256522	07-03-2001	SCHULTZ; Jerome S.	
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	965	US-6293925	09-25-2001	SAFABASH; Jason H. et al.	
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	1004	US-6359444	03-19-2002	GRIMES; Craig A.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1005	US-6360888	03-26-2002	MCIVOR; K. Collin. et al.	
	1006	US-6365670	04-02-2002	FRY; Bryan E.	
	1007	US-6366794	04-02-2002	MOUSSY; Francis et al.	
	1008	US-6368141	04-09-2002	VAN ANTWERP; Nannette M. et al.	
	1009	US-6368274	04-09-2002	VAN ANTWERP; William Peter. et al.	
	1010	US-6368658	04-09-2002	SCHWARZ; Marlene et al.	
	1011	US-6370410	04-09-2002	KURNIK; Ronald T. et al.	
	1012	US-6370941	04-16-2002	NAKAMURA; Michihiro et al.	
	1013	US-6371963	04-16-2002	NISHTALA; Srinivas et al.	
	1014	US-6372244	04-16-2002	ANTANAVICH; Richard D. et al.	
	1015	US-6377828	04-23-2002	CHAIKEN; Joseph et al.	
	1016	US-6379201	04-30-2002	BIGGS; Timothy M. et al.	
	1017	US-6379301	04-30-2002	WORTHINGTON; David R L. et al.	
	1018	US-6379317	04-30-2002	KINTZIG; Hans et al.	
	1019	US-6379883	04-30-2002	DAVIS; Graham et al.	
	1020	US-6387709	05-14-2002	MASON; Richard W. et al.	
	1021	US-6391019	05-21-2002	ITO; Takashi	
	1022	US-6393318	05-21-2002	CONN; Thomas E. et al.	
	1023	US-6398562	06-04-2002	BUTLER; Michael J. et al.	
	1024	US-6400974	06-04-2002	LESHO; Jeffery C.	

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	1025	US-6402703	06-11-2002	KENSEY; Kenneth et al.	
	1026	US-6403944	06-11-2002	MACKENZIE; Hugh Alexander et al.	
	1027	US-6405066	06-11-2002	ESSENPREIS; Matthias et al.	
	1028	US-6406066	06-18-2002	UEGANE; Masayuki	
	1029	US-6406426	06-18-2002	REUSS; James L. et al.	
	1030	US-6407195	06-18-2002	SHERMAN; Audrey A. et al.	
	1031	US-6409674	06-25-2002	BROCKWAY; Brian P. et al.	
	1032	US-6413393	07-02-2002	VAN ANTWERP; William P. et al.	
	1033	US-6416651	07-09-2002	MILLAR; Ord	
	1034	US-6418332	07-09-2002	MASTROTOTARO; John J. et al.	
	1035	US-6418346	07-09-2002	NELSON; Chester Gary et al.	
	1036	US-6424847	07-23-2002	MASTROTOTARO; John J. et al.	
	1037	US-6427088	07-30-2002	BOWMAN; Iv Sam W. et al.	
	1038	US-6430437	08-06-2002	MARRO; Dominic P.	
	1039	US-6432050	08-13-2002	PORAT; Yariv et al.	
	1040	US-6438414	08-20-2002	CONN; Thomas E. et al.	
	1041	US-6440068	08-27-2002	BROWN; Michael Wayne et al.	
	1042	US-6442413	08-27-2002	SILVER; James H.	
	1043	US-6447448	09-10-2002	ISHIKAWA; Akira et al.	

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	1044	US-6447542	09-10-2002	WEADOCK; Kevin	
	1045	US-6454710	09-24-2002	BALLERSTADT; Ralph et al.	
	1046	US-6459917	10-01-2002	GOWDA; Ashok et al.	
	1047	US-6461496	10-08-2002	FELDMAN; Benjamin J. et al.	
	1048	US-6464849	10-15-2002	SAY; James L. et al.	
	1049	US-6465066	10-15-2002	RULE; Mark et al.	
	1050	US-6466810	10-15-2002	WARD; W. Kenneth. et al.	
	1051	US-6467480	10-22-2002	MEIER; Bernd Horst et al.	
	1052	US-6468287	10-22-2002	BAUGH; Robert F.	
	1053	US-6471689	10-29-2002	JOSEPH; Jeffery I. et al.	
	1054	US-6471993	10-29-2002	SHASTRI; Venkatram R. et al.	
	1055	US-6474360	11-05-2002	ITO; Takashi	
	1056	US-6475372	11-05-2002	OHARA; Timothy J. et al.	
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	1059	US-6477395	11-05-2002	SCHULMAN; Joseph H. et al.	
	1060	US-6478736	11-12-2002	MAULT; James R.	
	1061	US-6481440	11-19-2002	GIELEN; Frans L H. et al.	
	1062	US-6484045	11-19-2002	HOLKER; James D. et al.	
	1063	US-6484046	11-19-2002	SAY; James et al.	

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	1064	US-6484132	11-19-2002	HIVELY; Lee M. et al.	
	1065	US-6485449	11-26-2002	ITO; Takashi	
	1066	US-6487429	11-26-2002	HOCKERSMITH; Linda et al.	
	1067	US-6488652	12-03-2002	WEIJAND; Koen J. et al.	
	1068	US-6494830	12-17-2002	WESSEL; Paul	
	1069	US-6494879	12-17-2002	LENNOX; Charles D. et al.	
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	1074	US-6501976	12-31-2002	SOHRAB; Borzu	
	1075	US-6510239	01-21-2003	WIERES; Ludwig et al.	
	1076	US-6510329	01-21-2003	HECKEL; Donald W.	
	1077	US-6512939	01-28-2003	COLVIN; Michael S. et al.	
	1078	US-6514689	02-04-2003	HAN; In Suk et al.	
	1079	US-6514718	02-04-2003	HELLER; Adam et al.	
	1080	US-6517508	02-11-2003	UTTERBERG; David S. et al.	
	1081	US-6520326	02-18-2003	MCIVOR; K. Collin. et al.	
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	1084	US-6520938	02-18-2003	FUNDERBURK; Jeffery V. et al.	
	1085	US-6520997	02-18-2003	PEKKARINEN; Michael O. et al.	
	1086	US-6522903	02-18-2003	BERMAN; Herbert L. et al.	
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	1088	US-6524861	02-25-2003	ANDERSON; Eric S.	
	1089	US-6526298	02-25-2003	KHALIL; Omar S. et al.	
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	1091	US-6528584	03-04-2003	KENNEDY; Joseph P. et al.	
	1092	US-6529755	03-04-2003	KURNIK; Ronald T. et al.	
	1093	US-6534711	03-18-2003	POLLACK; Richard Stephen	
	1094	US-6536433	03-25-2003	CEWERS; Goeran	
	1095	US-6537318	03-25-2003	ITA; Essien Eyo-Okon et al.	
	1096	US-6541107	04-01-2003	ZHONG; Bianxiao et al.	
	1097	US-6541266	04-01-2003	MODZELEWSKI; Brent E. et al.	
	1098	US-6542765	04-01-2003	GUY; Richard et al.	
	1099	US-6544212	04-08-2003	GALLEY; Paul J. et al.	
	1100	US-6545085	04-08-2003	KILGOUR; John A. et al.	
	1101	US-6546268	04-08-2003	ISHIKAWA; Akira et al.	
	1102	US-6546269	04-08-2003	KURNIK; Ronald T.	
	1103	US-6547839	04-15-2003	ZHANG; Zhiwei et al.	

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	1104	US-6549796	04-15-2003	SOHRAB; Borzu	
	1105	US-6551494	04-22-2003	HELLER; Adam et al.	
	1106	US-6551496	04-22-2003	MOLES; Donald R. et al.	
	1107	US-6553241	04-22-2003	MANNHEIMER; Paul D. et al.	
	1108	US-6553244	04-22-2003	LESHO; Matthew J. et al.	
	1109	US-6554805	04-29-2003	HIEJIMA; Katsuhiro	
	1110	US-6554822	04-29-2003	HOLSCHNEIDER; Daniel P. et al.	
	1111	US-6558320	05-06-2003	CAUSEY III; James D. et al.	
	1112	US-6558321	05-06-2003	BURD; John F. et al.	
	1113	US-6558347	05-06-2003	JHUBOO; Abdel Nasser et al.	
	1114	US-6558351	05-06-2003	STEIL; Garry M. et al.	
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	1119	US-6565509	05-20-2003	SAY; James et al.	
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	1122	US-6569309	05-27-2003	OTSUKA; Kiyoshi et al.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	1123	US-6569521	05-27-2003	SHERIDAN; Margaret M. et al.	
	1124	US-6571128	05-27-2003	LEBEL; Ronald J. et al.	
	1125	US-6572545	06-03-2003	KNOBBE; Edward J. et al.	
	1126	US-6572579	06-03-2003	RAGHAVAN; Raghu et al.	
	1127	US-6572745	06-03-2003	RAPPIN; Craig et al.	
	1128	US-6574490	06-03-2003	ABBINK; Russell E. et al.	
	1129	US-6575905	06-10-2003	KNOBBE; Edward J. et al.	
	1130	US-6576101	06-10-2003	HELLER; Adam et al.	
	1131	US-6577899	06-10-2003	LEBEL; Ronald J. et al.	
	1132	US-6579257	06-17-2003	ELGAS; Roger J. et al.	
	1133	US-6579498	06-17-2003	EGLISE; David	
	1134	US-6579690	06-17-2003	BONNECAZE; Roger T. et al.	
	1135	US-6584335	06-24-2003	HAAR; Hans-Peter et al.	
	1136	US-6585644	07-01-2003	LEBEL; Ronald J. et al.	
	1137	US-6585675	07-01-2003	O'MAHONY; John J. et al.	
	1138	US-6585763	07-01-2003	KEILMAN; George W. et al.	
	1139	US-6587704	07-01-2003	FINE; Ilya et al.	
	1140	US-6587705	07-01-2003	KIM; Lynn et al.	
	1141	US-6589229	07-08-2003	CONNELLY I; Robert et al.	
	1142	US-6591123	07-08-2003	FEIN; Michael E. et al.	
	1143	US-6591125	07-08-2003	BUSE; John Bernard et al.	

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	1144	US-6592745	07-15-2003	FELDMAN; Benjamin J. et al.	
	1145	US-6594514	07-15-2003	BERNER; Bret et al.	
	1146	US-6595756	07-22-2003	GRAY; John et al.	
	1147	US-6595919	07-22-2003	BERNER; Bret et al.	
	1148	US-6602221	08-05-2003	SARAVIA; Heber et al.	
	1149	US-6603995	08-05-2003	CARTER; Hugh	
	1150	US-6605072	08-12-2003	STRUYS; Michel et al.	
	1151	US-6605200	08-12-2003	MAO; Fei et al.	
	1152	US-6605201	08-12-2003	MAO; Fei et al.	
	1153	US-6607509	08-19-2003	BOBROFF; Randa M. et al.	
	1154	US-6607658	08-19-2003	HELLER; Adam et al.	
	1155	US-6609071	08-19-2003	SHAPIRO; Philip et al.	
	1156	US-6610012	08-26-2003	MAULT; James R.	
	1157	US-6612984	09-02-2003	KERR II; Robert A.	
	1158	US-6613379	09-02-2003	WARD; W. Kenneth. et al.	
	1159	US-6615061	09-02-2003	KHALIL; Omar S. et al.	
	1160	US-6615078	09-02-2003	BURSON; Kim K. et al.	
	1161	US-6618603	09-09-2003	VARALLI; Maurizio Claudio et al.	
	1162	US-6618934	09-16-2003	FELDMAN; Benjamin J. et al.	
	1163	US-6628975	09-30-2003	FEIN; Michael E. et al.	

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	1164	US-6633772	10-14-2003	FORD; Russell et al.	
	1165	US-6635014	10-21-2003	STARKWEATHER; Timothy J. et al.	
	1166	US-6641533	11-04-2003	CAUSEY III; James D. et al.	
	1167	US-6642015	11-04-2003	VACHON; David J. et al.	
	1168	US-6645181	11-11-2003	LAVI; Gilad et al.	
	1169	US-6645219	11-11-2003	ROE; Steven N.	
	1170	US-6645359	11-11-2003	BHULLAR; Raghbir S. et al.	
	1171	US-6648821	11-18-2003	LEBEL; Ronald J. et al.	
	1172	US-6653091	11-25-2003	DUNN; Timothy C. et al.	
	1173	US-6654625	11-25-2003	SAY; James L. et al.	
	1174	US-6656157	12-02-2003	DUCHON; Doug et al.	
	1175	US-6659948	12-09-2003	LEBEL; Ronald J. et al.	
	1176	US-6662439	12-16-2003	BHULLAR; Raghbir Singh	
	1177	US-6663615	12-16-2003	MADOU; Marc J. et al.	
	1178	US-6666821	12-23-2003	KEIMEL; John G.	
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	1180	US-6673022	01-06-2004	BOBO; Donald et al.	
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	1182	US-6679865	01-20-2004	SHEKALIM; Avraham	
	1183	US-6683535	01-27-2004	UTKE; Gene H.	
	1184	US-6684904	02-03-2004	ITO; Takashi	

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	1185	US-6685668	02-03-2004	CHO; Steve T. et al.	
	1186	US-6687522	02-03-2004	TAMADA; Janet	
	1187	US-6687546	02-03-2004	LEBEL; Ronald J. et al.	
	1188	US-6689056	02-10-2004	KILCOYNE; John T. et al.	
	1189	US-6689089	02-10-2004	TIEDTKE; Hans Jurgen et al.	
	1190	US-6689265	02-10-2004	HELLER; Adam et al.	
	1191	US-6692456	02-17-2004	EPPSTEIN; Jonathan A. et al.	
	1192	US-6694191	02-17-2004	STARKWEATHER; Timothy J. et al.	
	1193	US-6695860	02-24-2004	WARD; W. Kenneth. et al.	
	1194	US-6699188	03-02-2004	WESSEL; Paul	
	1195	US-6699218	03-02-2004	FLAHERTY; J. Christopher. et al.	
	1196	US-6699383	03-02-2004	LEMIRE; Bertrand et al.	
	1197	US-6702249	03-09-2004	ITO; Takashi	
	1198	US-6702857	03-09-2004	BRAUKER; James H. et al.	
	1199	US-6702972	03-09-2004	MARKLE; David Reed	
	1200	US-6705833	03-16-2004	TAM; Victoria Tsang et al.	
	1201	US-6711424	03-23-2004	FINE; Ilya et al.	
	1202	US-6712796	03-30-2004	FENTIS; Robert et al.	
	1203	US-6713773	03-30-2004	LYONS; Stan V. et al.	
	1204	US-6721586	04-13-2004	KISER; Ernest et al.	

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	1205	US-6721587	04-13-2004	GOUGH; David A.	
	1206	US-6723077	04-20-2004	PICKUP; Ray L. et al.	
	1207	US-6723086	04-20-2004	BASSUK; William K. et al.	
	1208	US-6730072	05-04-2004	SHAWGO; Rebecca S. et al.	
	1209	US-6730200	05-04-2004	STEWART; Alan A. et al.	
	1210	US-6731976	05-04-2004	PENN; Richard D. et al.	
	1211	US-6733446	05-11-2004	LEBEL; Ronald J. et al.	
	1212	US-6733655	05-11-2004	DAVIES; Oliver W H. et al.	
	1213	US-6736777	05-18-2004	KIM; Lynn et al.	
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	1215	US-6737158	05-18-2004	THOMPSON; Samuel A.	
	1216	US-6740059	05-25-2004	FLAHERTY; J. Christopher.	
	1217	US-6740075	05-25-2004	LEBEL; Ronald J. et al.	
	1218	US-6741877	05-25-2004	SHULTS; Mark C. et al.	
	1219	US-6742635	06-01-2004	HIRSHBERG; Jonathan	
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	1224	US-6767440	07-27-2004	BHULLAR; Raghbir S. et al.	
	1225	US-6767632	07-27-2004	AXELGAARD; Jens et al.	
	1226	US-6770030	08-03-2004	SCHAUPP; Lukas et al.	

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	1227	US-6770067	08-03-2004	LORENZEN; Eric et al.	
	1228	US-6773565	08-10-2004	KUNIMOTO; Akira et al.	
	1229	US-6780297	08-24-2004	MATSUMOTO; Toru et al.	
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	1235	US-6793802	09-21-2004	LEE; Jin Po et al.	
	1236	US-6801041	10-05-2004	KARINKA; Shridhara Alva et al.	
	1237	US-6802957	10-12-2004	JUNG; Sung-Kw N. et al.	
	1238	US-6804002	10-12-2004	FINE; Ilya et al.	
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	1244	US-6810290	10-26-2004	LEBEL; Ronald J. et al.	
	1245	US-6810736	11-02-2004	IKEZAWA; Toshiya et al.	
	1246	US-6811533	11-02-2004	LEBEL; Ronald J. et al.	

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Application Number	16690977
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	1247	US-6811534	11-02-2004	BOWMAN; Iv Sam W. et al.	
	1248	US-6811548	11-02-2004	JEFFREY; Peter	
	1249	US-6813519	11-02-2004	LEBEL; Ronald J. et al.	
	1250	US-6814845	11-09-2004	WILSON; George S. et al.	
	1251	US-6815186	11-09-2004	CLARK Jr.; Leland C.	
	1252	US-6830551	12-14-2004	UCHIGAKI; Takatoshi et al.	
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	1254	US-6843899	01-18-2005	UFER; Stefan	
	1255	US-6849052	02-01-2005	UCHIGAKI; Takatoshi et al.	
	1256	US-6850790	02-01-2005	BERNER; Bret et al.	
	1257	US-6858020	02-22-2005	RUSNAK; Christopher	
	1258	US-6862465	03-01-2005	SHULTS; Mark C. et al.	
	1259	US-6863800	03-08-2005	KARINKA; Shridhara Alva et al.	
	1260	US-6867262	03-15-2005	ANGEL; Maximilian et al.	
	1261	US-6869413	03-22-2005	LANGLEY; Christopher Nigel et al.	
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	1263	US-6875386	04-05-2005	WARD; Kenneth et al.	
	1264	US-6878112	04-12-2005	LINBERG; Kurt R. et al.	
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	1266	US-6882940	04-19-2005	POTTS; Russell O. et al.	
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	1268	US-6887228	05-03-2005	MCKAY; Douglas William	
	1269	US-6891317	05-10-2005	PEI; Qibing et al.	
	1270	US-6892085	05-10-2005	MCIVOR; K. Collin. et al.	
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	1277	US-6923763	08-02-2005	KOVATCHEV; Boris P. et al.	
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	1281	US-6932584	08-23-2005	GRAY; John et al.	
	1282	US-6932894	08-23-2005	MAO; Fei et al.	
	1283	US-6936006	08-30-2005	SABRA; Mads C.	
	1284	US-6942518	09-13-2005	LIAMOS; Charles T. et al.	
	1285	US-6945965	09-20-2005	WHITING; Howard Anthony	
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	1288	US-6952604	10-04-2005	DENUZZIO; John D. et al.	

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	1290	US-6958705	10-25-2005	LEBEL; Ronald J. et al.	
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	1292	US-6965791	11-15-2005	HITCHCOCK; Robert W. et al.	
	1293	US-6966325	11-22-2005	ERICKSON; John	
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	1295	US-6971274	12-06-2005	OLIN; John George	
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	1297	US-6973706	12-13-2005	SAY; James et al.	
	1298	US-6974437	12-13-2005	LEBEL; Ronald J. et al.	
	1299	US-6975893	12-13-2005	SAY; James L. et al.	
	1300	US-6979315	12-27-2005	ROGERS; Charles et al.	
	1301	US-6983867	01-10-2006	FUGERE; Jeffrey P.	
	1302	US-6989891	01-24-2006	BRAIG; James R. et al.	
	1303	US-6990366	01-24-2006	SAY; James et al.	
	1304	US-6991643	01-31-2006	SAADAT; Vahid	
	1305	US-6997907	02-14-2006	SAFABASH; Jason H. et al.	
	1306	US-6997921	02-14-2006	GRAY; John F. et al.	
	1307	US-6998247	02-14-2006	MONFRE; Stephen L. et al.	
	1308	US-7003336	02-21-2006	HOLKER; James D. et al.	
	1309	US-7003340	02-21-2006	SAY; James et al.	

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	1310	US-7003341	02-21-2006	SAY; James et al.	
	1311	US-7008979	03-07-2006	SCHOTTMAN; Thomas C. et al.	
	1312	US-7011630	03-14-2006	DESAI; Shashi P. et al.	
	1313	US-7016713	03-21-2006	GARDNER; Craig M. et al.	
	1314	US-7022072	04-04-2006	FOX; James Kelly et al.	
	1315	US-7022219	04-04-2006	MANSOURI; Sohrab et al.	
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	1326	US-7048687	05-23-2006	REUSS; James L. et al.	
	1327	US-7048727	05-23-2006	MOSS; Gerald	
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	1330	US-7058437	06-06-2006	BUSE; John Bernard et al.	
	1331	US-7058453	06-06-2006	NELSON; Chester Gary et al.	
	1332	US-7060031	06-13-2006	WEBB; James D. et al.	
	1333	US-7060059	06-13-2006	KEITH; Steven et al.	
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	1336	US-7066884	06-27-2006	CUSTER; Linda et al.	
	1337	US-7070577	07-04-2006	HALLER; Markus et al.	
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	1351	US-7118667	10-10-2006	LEE; Jin Po	
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	1370	US-7184810	02-27-2007	CADUFF; Andreas et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	1371	US-7190988	03-13-2007	SAY; James et al.	
	1372	US-7192450	03-20-2007	BRAUKER; James H. et al.	
	1373	US-7198606	04-03-2007	BOECKER; Dirk et al.	
	1374	US-7207968	04-24-2007	HARCINSKE; John C.	
	1375	US-7207974	04-24-2007	SAFABASH; Jason H. et al.	
	1376	US-7211074	05-01-2007	SANSOUCY; Michael	
	1377	US-7221970	05-22-2007	PARKER; Dawood	
	1378	US-7223253	05-29-2007	HOGENDIJK; Michael	
	1379	US-7225535	06-05-2007	FELDMAN; Benjamin J. et al.	
	1380	US-7226978	06-05-2007	TAPSAK; Mark A. et al.	
	1381	US-7228162	06-05-2007	WARD; W. Kenneth. et al.	
	1382	US-7229288	06-12-2007	STUART; Steven et al.	
	1383	US-7238165	07-03-2007	VINCENT; Douglas et al.	
	1384	US-7241266	07-10-2007	ZHOU; Peter et al.	
	1385	US-7241586	07-10-2007	GULATI; Poonam S. et al.	
	1386	US-7247138	07-24-2007	REGHABI; Bahar et al.	
	1387	US-7248906	07-24-2007	DIRAC; Holger et al.	
	1388	US-7254450	08-07-2007	CHRISTOPHERSON; Mark A. et al.	
	1389	US-7255690	08-14-2007	GRAY; John et al.	
	1390	US-7258681	08-21-2007	HOUDE; Eric	
	1391	US-7261690	08-28-2007	TELLER; Eric et al.	

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	1392	US-7266400	09-04-2007	FINE; Ilya et al.	
	1393	US-7267665	09-11-2007	STEIL; Garry M. et al.	
	1394	US-7276029	10-02-2007	GOODE Jr.; Paul V. et al.	
	1395	US-7276146	10-02-2007	WILSEY; Christopher D.	
	1396	US-7276147	10-02-2007	WILSEY; Christopher D.	
	1397	US-7278983	10-09-2007	IRELAND; Jeffrey R. et al.	
	1398	US-7287318	10-30-2007	BHULLAR; Raghbir S. et al.	
	1399	US-7288085	10-30-2007	OLSEN; James M.	
	1400	US-7291497	11-06-2007	HOLMES; Elizabeth A. et al.	
	1401	US-7295867	11-13-2007	BERNER; Bret et al.	
	1402	US-7299082	11-20-2007	FELDMAN; Benjamin J. et al.	
	1403	US-7310544	12-18-2007	BRISTER; Mark et al.	
	1404	US-7310544-C1	04-05-2011	BRISTER; Mark. et al.	
	1405	US-7310544-C2	11-27-2012	BRISTER; Mark. et al.	
	1406	US-7311690	12-25-2007	BURNETT; Daniel R.	
	1407	US-7313425	12-25-2007	FINAROV; Alexander et al.	
	1408	US-7314452	01-01-2008	MADONIA; James R.	
	1409	US-7315767	01-01-2008	CADUFF; Andreas et al.	
	1410	US-7316662	01-08-2008	DELNEVO; Annalisa et al.	
	1411	US-7317939	01-08-2008	FINE; Ilya et al.	
	1412	US-7318814	01-15-2008	LEVINE; Andy H. et al.	

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Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	1413	US-7324012	01-29-2008	MANN; Alfred E. et al.	
	1414	US-7327273	02-05-2008	HUNG; Orlando R. et al.	
	1415	US-7329234	02-12-2008	SANSOUCY; Michael R.	
	1416	US-7329239	02-12-2008	SAFABASH; Jason H. et al.	
	1417	US-7334594	02-26-2008	LUDIN; Lev	
	1418	US-7335179	02-26-2008	BURNETT; Daniel Rogers	
	1419	US-7335195	02-26-2008	MEHIER; Henri	
	1420	US-7335286	02-26-2008	ABEL; Peter et al.	
	1421	US-7335294	02-26-2008	HELLER; Adam et al.	
	1422	US-7338464	03-04-2008	BLISCHAK; Brian et al.	
	1423	US-7344499	03-18-2008	PRAUSNITZ; Mark R. et al.	
	1424	US-7354420	04-08-2008	STEIL; Garry M. et al.	
	1425	US-7359723	04-15-2008	JONES; Donald John	
	1426	US-7361155	04-22-2008	SAGE Jr.; Burton H. et al.	
	1427	US-7364562	04-29-2008	BRAIG; James R. et al.	
	1428	US-7364592	04-29-2008	CARR-BRENDEL VICTORIA . et al.	
	1429	US-7366556	04-29-2008	BRISTER; Mark et al.	
	1430	US-7366566	04-29-2008	HENRY; Christine et al.	
	1431	US-7367942	05-06-2008	GRAGE; Henry et al.	
	1432	US-7379765	05-27-2008	PETISCE; James et al.	
	1433	US-7381184	06-03-2008	FUNDERBURK; Jeffery V. et al.	

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	1434	US-7384397	06-10-2008	ZHANG; Yanan et al.	
	1435	US-7386937	06-17-2008	BHULLAR; Raghbir S. et al.	
	1436	US-7392080	06-24-2008	EPPSTEIN; Jonathan et al.	
	1437	US-7395158	07-01-2008	MONFRE; Stephen L. et al.	
	1438	US-7396353	07-08-2008	LORENZEN; Eric et al.	
	1439	US-7399277	07-15-2008	SAIDARA; Frank et al.	
	1440	US-7402153	07-22-2008	STEIL; Garry M. et al.	
	1441	US-7404819	07-29-2008	DARIOS; Roger et al.	
	1442	US-7405055	07-29-2008	DUNN; Timothy C. et al.	
	1443	US-7417164	08-26-2008	SURI; Jeff T.	
	1444	US-7424318	09-09-2008	BRISTER; Mark et al.	
	1445	US-7426408	09-16-2008	DENUZZIO; John D. et al.	
	1446	US-7433727	10-07-2008	WARD; W. Kenneth. et al.	
	1447	US-7460898	12-02-2008	BRISTER; Mark et al.	
	1448	US-7467003	12-16-2008	BRISTER; Mark et al.	
	1449	US-7471972	12-30-2008	RHODES; Rathbun et al.	
	1450	US-7494465	02-24-2009	BRISTER; Mark et al.	
	1451	US-7497827	03-03-2009	BRISTER; Mark et al.	
	1452	US-7497827-C1	10-04-2011	BRISTER; Mark. et al.	
	1453	US-7519408	04-14-2009	RASDAL; Andrew et al.	
	1454	US-7519478	04-14-2009	BARTKOWIAK; Miroslaw et al.	

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	1455	US-7523004	04-21-2009	BARTKOWIAK; Miroslaw et al.	
	1456	US-7525298	04-28-2009	MORGAN; Wayne A. et al.	
	1457	US-7530950	05-12-2009	BRISTER; et al.	
	1458	US-7565197	07-21-2009	HAUBRICH; Gregory J. et al.	
	1459	US-7574266	08-11-2009	DUDDING; Charles H. et al.	
	1460	US-7582059	09-01-2009	FUNDERBURK; Jeffery V. et al.	
	1461	US-7583990	09-01-2009	GOODE Jr.; Paul V. et al.	
	1462	US-7587287	09-08-2009	CONNOLLY; Brian Edmond et al.	
	1463	US-7591801	09-22-2009	BRAUKER; James H. et al.	
	1464	US-7599726	10-06-2009	GOODE Jr.; Paul V. et al.	
	1465	US-7602310	10-13-2009	MANN; Alfred E. et al.	
	1466	US-7604593	10-20-2009	PARRIS; Norman A. et al.	
	1467	US-7613491	11-03-2009	BOOCK; Robert et al.	
	1468	US-7615007	11-10-2009	SHULTS; Mark et al.	
	1469	US-7618368	11-17-2009	BROWN; Stephen J.	
	1470	US-7618369	11-17-2009	HAYTER; Gary et al.	
	1471	US-7624028	11-24-2009	BROWN; Stephen J.	
	1472	US-7632228	12-15-2009	BRAUKER; James H. et al.	
	1473	US-7636602	12-22-2009	BARU FASSIO; Marcelo Daniel. et al.	
	1474	US-7637868	12-29-2009	SAINT; Sean et al.	

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	1475	US-7640032	12-29-2009	JONES; Donald John	
	1476	US-7640048	12-29-2009	BRISTER; Mark et al.	
	1477	US-7640048-C1	07-05-2011	DOBBLES; J. Michael. et al.	
	1478	US-7647237	01-12-2010	MALAVE; Luis J. et al.	
	1479	US-7651596	01-26-2010	PETISCE; James R. et al.	
	1480	US-7654956	02-02-2010	BRISTER; Mark et al.	
	1481	US-7657297	02-02-2010	SIMPSON; Peter C. et al.	
	1482	US-7687586	03-30-2010	WARD; Robert S. et al.	
	1483	US-7695434	04-13-2010	MALECHA; Michael	
	1484	US-7697967	04-13-2010	STAFFORD; Gary Ashley	
	1485	US-7699775	04-20-2010	DESAI; Shashi P. et al.	
	1486	US-7711402	05-04-2010	SHULTS; Mark C. et al.	
	1487	US-7711493	05-04-2010	BARTKOWIAK; Miroslaw et al.	
	1488	US-7713574	05-11-2010	BRISTER; Mark et al.	
	1489	US-7713574-C1	06-05-2012	BRISTER; Mark. et al.	
	1490	US-7713574-C2	03-11-2014	BRISTER; Mark. et al.	
	1491	US-7715893	05-11-2010	KAMATH; Apurv Ullas et al.	
	1492	US-7725148	05-25-2010	SHAH; Rajiv et al.	
	1493	US-7731659	06-08-2010	MALECHA; Michael	
	1494	US-7736322	06-15-2010	ROE; Steven N. et al.	
	1495	US-7761126	07-20-2010	GARDNER; Craig M. et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1496	US-7766830	08-03-2010	FOX; James Kelly et al.	
	1497	US-7771352	08-10-2010	SHULTS; Mark C. et al.	
	1498	US-7774145	08-10-2010	BRAUKER; James H. et al.	
	1499	US-7774145-C1	03-20-2012	BRAUKER; James H.	
	1500	US-7792562	09-07-2010	SHULTS; Mark C. et al.	
	1501	US-7811231	10-12-2010	JIN; Robert Y. et al.	
	1502	US-7826981	11-02-2010	GOODE Jr.; Paul V. et al.	
	1503	US-7857760	12-28-2010	BRISTER; Mark et al.	
	1504	US-7862622	01-04-2011	DUNLAP; David et al.	
	1505	US-7874985	01-25-2011	KOVATCHEV; Boris P. et al.	
	1506	US-7879010	02-01-2011	HUNN; Marcel et al.	
	1507	US-7881763	02-01-2011	BRAUKER; James H. et al.	
	1508	US-7885697	02-08-2011	BRISTER; Mark et al.	
	1509	US-7885698	02-08-2011	FELDMAN; Benjamin J.	
	1510	US-7890295	02-15-2011	SHIN; John J. et al.	
	1511	US-7896809	03-01-2011	SIMPSON; Peter C. et al.	
	1512	US-7899511	03-01-2011	SHULTS; Mark C. et al.	
	1513	US-7901354	03-08-2011	SHULTS; Mark C. et al.	
	1514	US-7905833	03-15-2011	BRISTER; Mark et al.	
	1515	US-7905833-C1	11-29-2011	BRISTER; Mark. et al.	
	1516	US-7917186	03-29-2011	KAMATH; Apurv Ullas et al.	
	1517	US-7920906	04-05-2011	GOODE Jr.; Paul V. et al.	

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Complete if Known	
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Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	1518	US-7925321	04-12-2011	GOODE Jr.; Paul V. et al.	
	1519	US-7927274	04-19-2011	RASDAL; Andrew et al.	
	1520	US-7935499	05-03-2011	DUNN; Timothy C. et al.	
	1521	US-7946984	05-24-2011	BRISTER; Mark et al.	
	1522	US-7946985	05-24-2011	MASTROTOTARO; John J. et al.	
	1523	US-7949381	05-24-2011	BRISTER; Mark et al.	
	1524	US-7986986	07-26-2011	GOODE; Paul V. et al.	
	1525	US-7998071	08-16-2011	GOODE Jr.; Paul V. et al.	
	1526	US-8000901	08-16-2011	BRAUKER; James H. et al.	
	1527	US-8005524	08-23-2011	BRAUKER; James H. et al.	
	1528	US-8005525	08-23-2011	GOODE Jr.; Paul V. et al.	
	1529	US-8010174	08-30-2011	GOODE Jr.; Paul V. et al.	
	1530	US-8019421	09-13-2011	DARVISH; Nissim et al.	
	1531	US-8060173	11-15-2011	GOODE Jr.; Paul V. et al.	
	1532	US-8073520	12-06-2011	KAMATH; Apurv U. et al.	
	1533	US-8118877	02-21-2012	BRAUKER; James H. et al.	
	1534	US-8133178	03-13-2012	BRAUKER; James H. et al.	
	1535	US-8152789	04-10-2012	STARKWEATHER; Timothy J. et al.	
	1536	US-8160669	04-17-2012	BRAUKER; James H. et al.	
	1537	US-8160671	04-17-2012	KAMATH; Apurv Ullas et al.	
	1538	US-8167801	05-01-2012	GOODE Jr.; Paul V. et al.	

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Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	1539	US-8170803	05-01-2012	KAMATH; Apurv Ullas et al.	
	1540	US-8216139	07-10-2012	BRAUKER; James H. et al.	
	1541	US-8229534	07-24-2012	BRISTER; Mark et al.	
	1542	US-8231531	07-31-2012	BRISTER; Mark et al.	
	1543	US-8233958	07-31-2012	BRAUKER; James H. et al.	
	1544	US-8251906	08-28-2012	BRAUKER; James H. et al.	
	1545	US-8257259	09-04-2012	BRAUKER; James H. et al.	
	1546	US-8265725	09-11-2012	BRAUKER; James H. et al.	
	1547	US-8275438	09-25-2012	SIMPSON; Peter C. et al.	
	1548	US-8277713	10-02-2012	PETISCE; James R. et al.	
	1549	US-8280475	10-02-2012	BRISTER; Mark et al.	
	1550	US-8282549	10-09-2012	BRAUKER; James H. et al.	
	1551	US-8290559	10-16-2012	SHARIATI; Mohammad Ali et al.	
	1552	US-8290560	10-16-2012	KAMATH; Apurv Ullas et al.	
	1553	US-8290561	10-16-2012	BRAUKER; James H. et al.	
	1554	US-8298142	10-30-2012	SIMPSON; Peter C. et al.	
	1555	US-8311749	11-13-2012	BRAUKER; James H. et al.	
	1556	US-8313434	11-20-2012	BRISTER; Mark et al.	
	1557	US-8321149	11-27-2012	BRAUKER; James H. et al.	
	1558	US-8353881	01-15-2013	JENNEWINE; R. Curtis	
	1559	US-8355753	01-15-2013	BOCHENKO; Walter John et al.	

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	1560	US-8364229	01-29-2013	SIMPSON; Peter C. et al.	
	1561	US-8366614	02-05-2013	SAY; James et al.	
	1562	US-8374667	02-12-2013	BRAUKER; James H. et al.	
	1563	US-8452368	05-28-2013	BRISTER; Mark et al.	
	1564	US-8457708	06-04-2013	BRISTER; Mark et al.	
	1565	US-8463350	06-11-2013	KAMATH; Apurv Ullas et al.	
	1566	US-8469886	06-25-2013	BRAUKER; James H. et al.	
	1567	US-8474397	07-02-2013	BRISTER; Mark et al.	
	1568	US-8475373	07-02-2013	BRISTER; Mark et al.	
	1569	US-8483791	07-09-2013	BRISTER; Mark et al.	
	1570	US-8506482	08-13-2013	FELDMAN; Benjamin J.	
	1571	US-8515516	08-20-2013	KAMATH; Apurv Ullas et al.	
	1572	US-8515519	08-20-2013	BRISTER; Mark et al.	
	1573	US-8548551	10-01-2013	KAMATH; Apurv Ullas et al.	
	1574	US-8560037	10-15-2013	GOODE Jr.; Paul V. et al.	
	1575	US-8565848	10-22-2013	BRISTER; Mark et al.	
	1576	US-8565849	10-22-2013	KAMATH; Apurv Ullas et al.	
	1577	US-8571625	10-29-2013	KAMATH; Apurv Ullas et al.	
	1578	US-8579816	11-12-2013	KAMATH; Apurv Ullas et al.	
	1579	US-8611978	12-17-2013	KAMATH; Apurv Ullas et al.	
	1580	US-8615282	12-24-2013	BRISTER; Mark et al.	
	1581	US-8663109	03-04-2014	BRISTER; Mark et al.	

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	1582	US-8690775	04-08-2014	BRISTER; Mark et al.	
	1583	US-8731630	05-20-2014	KAMATH; Apurv Ullas et al.	
	1584	US-8750955	06-10-2014	BRISTER; Mark et al.	
	1585	US-8788007	07-22-2014	BRAUKER; James H. et al.	
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	1587	US-8792954	07-29-2014	BRISTER; Mark et al.	
	1588	US-8792955	07-29-2014	BRISTER; Mark et al.	
	1589	US-8825127	09-02-2014	KAMATH; Apurv Ullas et al.	
	1590	US-8858434	10-14-2014	KAMATH; Apurv Ullas et al.	
	1591	US-8886272	11-11-2014	BRISTER; Mark et al.	
	1592	US-8915849	12-23-2014	BRAUKER; James H. et al.	
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	1594	US-8986209	03-24-2015	BRAUKER; James H. et al.	
	1595	US-8989833	03-24-2015	BRAUKER; James H. et al.	
	1596	US-9044199	06-02-2015	BRISTER; Mark et al.	
	1597	US-9055901	06-16-2015	BRISTER; Mark et al.	
	1598	US-9060742	06-23-2015	BRISTER; Mark et al.	
	1599	US-9078608	07-14-2015	KAMATH; Apurv Ullas et al.	
	1600	US-9078626	07-14-2015	BRISTER; Mark et al.	
	1601	US-9155496	10-13-2015	SHULTS; Mark et al.	
	1602	US-9220449	12-29-2015	PRYOR; Jack et al.	
	1603	US-9247900	02-02-2016	BRISTER; Mark C. et al.	

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	1604	US-9314196	04-19-2016	PRYOR; Jack et al.	
	1605	US-9414777	08-16-2016	BRISTER; Mark et al.	
	1606	US-9603557	03-28-2017	BRISTER; Mark et al.	
	1607	US-9610031	04-04-2017	BRISTER; Mark et al.	
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	1609	US-9669156	06-06-2017	JENNEWINE; R. Curtis	
	1610	US-9724028	08-08-2017	BRAUKER; James H. et al.	
	1611	US-9775543	10-03-2017	BRISTER; Mark C. et al.	
	1612	US-9801572	10-31-2017	BRISTER; Mark C. et al.	
	1613	US-9814414	11-14-2017	BRISTER; Mark et al.	
	1614	US-9833176	12-05-2017	BRISTER; Mark et al.	
	1615	US-9918668	03-20-2018	PRYOR; Jack et al.	
	1616	US-10022078	07-17-2018	BRAUKER; James H. et al.	
	1617	US-10314525	06-11-2019	SIMPSON; Peter C. et al.	
	1618	US-20010008187	07-19-2001	HANSSEN; Hans et al.	
	1619	US-20010016682	08-23-2001	BERNER; Bret et al.	
	1620	US-20010020546	09-13-2001	ELDRIDGE; Benjamin N. et al.	
	1621	US-20010021817	09-13-2001	BRUGGER; James M. et al.	
	1622	US-20010027327	10-04-2001	SCHRAGA; Steven	
	1623	US-20010039053	11-08-2001	LISEO; John et al.	
	1624	US-20010039387	11-08-2001	RUTYNOWSKI; Wlodzimierz et al.	

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Application Number	16690977
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1625	US-20010041830	11-15-2001	VARALLI; Maurizio Claudio et al.	
	1626	US-20010044413	11-22-2001	PIERCE; Glenn et al.	
	1627	US-20010044588	11-22-2001	MAULT; James R.	
	1628	US-20010051766	12-13-2001	GAZDZINSKI; Robert F.	
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	1635	US-20020022883	02-21-2002	BURG; Karen J L.	
	1636	US-20020023852	02-28-2002	MCIVOR; K. Collin. et al.	
	1637	US-20020026110	02-28-2002	PARRIS; Norman A. et al.	
	1638	US-20020026111	02-28-2002	ACKERMAN; Neil	
	1639	US-20020032531	03-14-2002	MANSKY; Paul et al.	
	1640	US-20020038081	03-28-2002	FEIN; Michael E. et al.	
	1641	US-20020042090	04-11-2002	HELLER; Adam et al.	
	1642	US-20020042561	04-11-2002	SCHULMAN; Joseph H. et al.	
	1643	US-20020043471	04-18-2002	IKEDA; Shin et al.	

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	1644	US-20020043651	04-18-2002	DARROW; Christopher B. et al.	
	1645	US-20020045808	04-18-2002	FORD; Russell et al.	
	1646	US-20020050250	05-02-2002	PETERSON; Frederic T. et al.	
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	1660	US-20020119711	08-29-2002	VAN ANTWERP; Nannette M. et al.	
	1661	US-20020123048	09-05-2002	GAU; Vincent Jen-Jr	
	1662	US-20020128419	09-12-2002	TERRY; Richard N. et al.	
	1663	US-20020128546	09-12-2002	SILVER; James H.	

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	1664	US-20020128594	09-12-2002	DAS; Kusal K. et al.	
	1665	US-20020132279	09-19-2002	HOCKERSMITH; Linda	
	1666	US-20020133063	09-19-2002	HOCKERSMITH; Linda et al.	
	1667	US-20020133224	09-19-2002	BAJGAR; Clara et al.	
	1668	US-20020137991	09-26-2002	SCARANTINO; Charles W. et al.	
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	1674	US-20020164836	11-07-2002	HO; Sheng-Chun	
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	1681	US-20020186185	12-12-2002	IDE; Shigeo et al.	
	1682	US-20020188185	12-12-2002	SOHRAB; Borzu	
	1683	US-20020188216	12-12-2002	KAYYALI; Hani Akram et al.	

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Attorney Docket Number	DEXCOM.053C22

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	1684	US-20020188252	12-12-2002	BARDY; Gust H.	
	1685	US-20020193679	12-19-2002	MALAVE; Luis J. et al.	
	1686	US-20020193885	12-19-2002	LEGEAY; Gilbert et al.	
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	1688	US-20030003524	01-02-2003	TANIIKE; Yukio et al.	
	1689	US-20030004432	01-02-2003	ASSENHEIMER; Michel	
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	1691	US-20030006669	01-09-2003	PEI; Qibing et al.	
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	1693	US-20030021729	01-30-2003	MOLLER; Andreas et al.	
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	1695	US-20030023317	01-30-2003	BRAUKER; James H. et al.	
	1696	US-20030023461	01-30-2003	QUINTANILLA; Dan et al.	
	1697	US-20030024811	02-06-2003	DAVIES; Oliver William Hardwick et al.	
	1698	US-20030028089	02-06-2003	GALLEY; Paul J. et al.	
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	1700	US-20030032874	02-13-2003	RHODES; Rathbun et al.	
	1701	US-20030036773	02-20-2003	WHITEHURST; Todd K. et al.	
	1702	US-20030042137	03-06-2003	MAO; Fei et al.	
	1703	US-20030049166	03-13-2003	PENDO; Shaun et al.	

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	1705	US-20030050546	03-13-2003	DESAI; Shashi P. et al.	
	1706	US-20030054428	03-20-2003	MONFRE; Stephen L. et al.	
	1707	US-20030055464	03-20-2003	DARVISH; Nissim et al.	
	1708	US-20030059631	03-27-2003	AL-LAMEE KADAM GAYAD.	
	1709	US-20030060765	03-27-2003	CAMPBELL; Arthur et al.	
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	1711	US-20030065308	04-03-2003	LEBEL; Ronald J. et al.	
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	1713	US-20030072741	04-17-2003	BERGLUND; Joseph D. et al.	
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	1717	US-20030088166	05-08-2003	SAY; James et al.	
	1718	US-20030091433	05-15-2003	TAM; Victoria Tsang et al.	
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	1720	US-20030097082	05-22-2003	PURDY; Phillip D. et al.	
	1721	US-20030099682	05-29-2003	MOUSSY; Francis et al.	
	1722	US-20030100040	05-29-2003	BONNECAZE; Roger T. et al.	
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	1725	US-20030114735	06-19-2003	SILVER; James H. et al.	
	1726	US-20030117296	06-26-2003	SEELY; Andrew J E.	
	1727	US-20030119208	06-26-2003	YOON; Hyun Chul et al.	
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	1731	US-20030130616	07-10-2003	STEIL; Garry M. et al.	
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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	1745	US-20030186457	10-02-2003	IWAKI; Yoshihide et al.	
	1746	US-20030187338	10-02-2003	SAY; James et al.	
	1747	US-20030188427	10-09-2003	SAY; James et al.	
	1748	US-20030190383	10-09-2003	KIM; Hag-Yong	
	1749	US-20030191377	10-09-2003	ROBINSON; Mark Ries et al.	
	1750	US-20030199744	10-23-2003	BUSE; John Bernard et al.	
	1751	US-20030199745	10-23-2003	BURSON; Kim K. et al.	
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	1757	US-20030208113	11-06-2003	MAULT; James R. et al.	
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	1761	US-20030212347	11-13-2003	SOHRAB; Borzu	
	1762	US-20030212379	11-13-2003	BYLUND; Adam David et al.	
	1763	US-20030217966	11-27-2003	TAPSAK; Mark A. et al.	
	1764	US-20030225324	12-04-2003	ANDERSON; Edward J. et al.	

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Art Unit	3791
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Attorney Docket Number	DEXCOM.053C22

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	1765	US-20030225360	12-04-2003	EPPSTEIN; Jonathan et al.	
	1766	US-20030225361	12-04-2003	SABRA; Mads C.	
	1767	US-20030225437	12-04-2003	FERGUSON; Patrick J.	
	1768	US-20030228681	12-11-2003	RITTS; Rosalyn et al.	
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	1770	US-20030235817	12-25-2003	BARTKOWIAK; Miroslaw et al.	
	1771	US-20040002682	01-01-2004	KOVELMAN; Paul H. et al.	
	1772	US-20040006263	01-08-2004	ANDERSON; Edward J. et al.	
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	1774	US-20040010207	01-15-2004	FLAHERTY; J. Christopher. et al.	
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	1777	US-20040015134	01-22-2004	LAVI; Gilad et al.	
	1778	US-20040018486	01-29-2004	DUNN; Timothy C. et al.	
	1779	US-20040023253	02-05-2004	KUNWAR; Sandeep et al.	
	1780	US-20040023317	02-05-2004	MOTAMEDI; Massoud et al.	
	1781	US-20040024327	02-05-2004	BRODNICK; Donald Eugene	
	1782	US-20040024553	02-05-2004	MONFRE; Stephen L. et al.	
	1783	US-20040030285	02-12-2004	LAVI; Gilad et al.	
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Art Unit	3791
Examiner Name	Unassigned
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	1785	US-20040039298	02-26-2004	ABREU; Marcio Marc	
	1786	US-20040039342	02-26-2004	EPPSTEIN; Jonathan et al.	
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	1789	US-20040040840	03-04-2004	MAO; Fei et al.	
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	1800	US-20040088023	05-06-2004	IMRAN; Mir A. et al.	
	1801	US-20040106741	06-03-2004	KRIESEL; Joshua W. et al.	
	1802	US-20040106857	06-03-2004	GOUGH; David A.	
	1803	US-20040106858	06-03-2004	SAY; James et al.	
	1804	US-20040106859	06-03-2004	SAY; James et al.	
	1805	US-20040106860	06-03-2004	SAY; James et al.	
	1806	US-20040111017	06-10-2004	SAY; James L. et al.	

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	1808	US-20040122353	06-24-2004	SHAHMIRIAN; Varaz et al.	
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	1824	US-20040167801	08-26-2004	SAY; James et al.	
	1825	US-20040171921	09-02-2004	SAY; James et al.	
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	1827	US-20040176672	09-09-2004	SILVER; James H. et al.	

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	1828	US-20040180391	09-16-2004	GRATZL; Miklos et al.	
	1829	US-20040186362	09-23-2004	BRAUKER; James H. et al.	
	1830	US-20040186365	09-23-2004	JIN; Robert Y. et al.	
	1831	US-20040193025	09-30-2004	STEIL; Garry M. et al.	
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	1835	US-20040204687	10-14-2004	MOGENSEN; Lasse Wesseltoft et al.	
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	1847	US-20040242982	12-02-2004	SAKATA; Tetsuya et al.	

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	1848	US-20040244151	12-09-2004	SAKATA; Tetsuya et al.	
	1849	US-20040249421	12-09-2004	HAREL; Tami et al.	
	1850	US-20040253365	12-16-2004	WARREN; William L. et al.	
	1851	US-20040254433	12-16-2004	BANDIS; Steven D. et al.	
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	1855	US-20040265940	12-30-2004	SLATER; Jonathan M. et al.	
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	1857	US-20050000829	01-06-2005	MORITA; Yoshimitsu et al.	
	1858	US-20050003399	01-06-2005	BLACKBURN; Gary et al.	
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	1860	US-20050004438	01-06-2005	WARD; W. Kenneth. et al.	
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	1863	US-20050006122	01-13-2005	BURNETTE; David Ruffin	
	1864	US-20050008671	01-13-2005	VAN ANTWERP; William P.	
	1865	US-20050010265	01-13-2005	BARU FASSIO; Marcelo Daniel. et al.	
	1866	US-20050010269	01-13-2005	LEBEL; Ronald J. et al.	
	1867	US-20050013842	01-20-2005	QIU; Yongxing et al.	
	1868	US-20050016325	01-27-2005	ENOKIDO; Yasushi	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1869	US-20050026689	02-03-2005	MARKS; Richard L.	
	1870	US-20050027177	02-03-2005	SHIN; John J. et al.	
	1871	US-20050027180	02-03-2005	GOODE; Paul V. et al.	
	1872	US-20050027181	02-03-2005	GOODE; Paul V. et al.	
	1873	US-20050027182	02-03-2005	SIDDIQUI; Uzair et al.	
	1874	US-20050027462	02-03-2005	GOODE; Paul V. et al.	
	1875	US-20050027463	02-03-2005	GOODE Jr.; Paul V. et al.	
	1876	US-20050031689	02-10-2005	SHULTS; Mark et al.	
	1877	US-20050033132	02-10-2005	SHULTS; Mark C. et al.	
	1878	US-20050038332	02-17-2005	SAIDARA; Frank et al.	
	1879	US-20050043598	02-24-2005	GOODE Jr.; Paul V. et al.	
	1880	US-20050049472	03-03-2005	MANDA; Ven et al.	
	1881	US-20050051427	03-10-2005	BRAUKER; James H. et al.	
	1882	US-20050051440	03-10-2005	SIMPSON; Peter C. et al.	
	1883	US-20050054909	03-10-2005	PETISCE; James et al.	
	1884	US-20050056551	03-17-2005	WHITE; Stephen Fredrick et al.	
	1885	US-20050056552	03-17-2005	SIMPSON; Peter C. et al.	
	1886	US-20050059871	03-17-2005	GOUGH; David A. et al.	
	1887	US-20050065464	03-24-2005	TALBOT; Cary D. et al.	
	1888	US-20050070770	03-31-2005	DIRAC; Holger et al.	
	1889	US-20050077584	04-14-2005	UHLAND; Scott A. et al.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	1890	US-20050079200	04-14-2005	RATHENOW; Jorg et al.	
	1891	US-20050080345	04-14-2005	FINBURGH; Simon E. et al.	
	1892	US-20050085839	04-21-2005	ALLEN; John et al.	
	1893	US-20050090607	04-28-2005	TAPSAK; Mark A. et al.	
	1894	US-20050096512	05-05-2005	FOX; James K. et al.	
	1895	US-20050096519	05-05-2005	DENUZZIO; John D. et al.	
	1896	US-20050101847	05-12-2005	ROUTT; Wilson et al.	
	1897	US-20050103624	05-19-2005	BHULLAR; Raghbir S. et al.	
	1898	US-20050103625	05-19-2005	RHODES; Rathbun et al.	
	1899	US-20050106713	05-19-2005	PHAN; Brigitte Chau. et al.	
	1900	US-20050107677	05-19-2005	WARD; W. Kenneth. et al.	
	1901	US-20050112169	05-26-2005	BRAUKER; James H. et al.	
	1902	US-20050113653	05-26-2005	FOX; James K. et al.	
	1903	US-20050114068	05-26-2005	CHEY; Sjay. et al.	
	1904	US-20050115832	06-02-2005	SIMPSON; Peter C. et al.	
	1905	US-20050118344	06-02-2005	PACETTI; Stephen D.	
	1906	US-20050119720	06-02-2005	GALE; David C. et al.	
	1907	US-20050121322	06-09-2005	SAY; James et al.	
	1908	US-20050124873	06-09-2005	SHULTS; Mark C. et al.	
	1909	US-20050131305	06-16-2005	DANIELSON; Bo G. et al.	
	1910	US-20050131346	06-16-2005	DOUGLAS; Joel S.	
	1911	US-20050133368	06-23-2005	DAVIES; Oliver W H. et al.	

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	1912	US-20050139489	06-30-2005	DAVIES; Oliver William H. et al.	
	1913	US-20050143635	06-30-2005	KAMATH; Apurv U. et al.	
	1914	US-20050143636	06-30-2005	ZHANG; Yanan et al.	
	1915	US-20050143675	06-30-2005	NEEL; Gary T. et al.	
	1916	US-20050154264	07-14-2005	LECOMPTE; Kellie M. et al.	
	1917	US-20050154271	07-14-2005	RASDAL; Andrew et al.	
	1918	US-20050154272	07-14-2005	DIRAC; Holger et al.	
	1919	US-20050161346	07-28-2005	SIMPSON; Peter et al.	
	1920	US-20050173245	08-11-2005	FELDMAN; Benjamin et al.	
	1921	US-20050176136	08-11-2005	BURD; John et al.	
	1922	US-20050176678	08-11-2005	HORRES; Roland et al.	
	1923	US-20050177036	08-11-2005	SHULTS; Mark C. et al.	
	1924	US-20050177398	08-11-2005	WATANABE; Motokazu et al.	
	1925	US-20050181012	08-18-2005	SAINT; Sean et al.	
	1926	US-20050182306	08-18-2005	SLOAN; Mark K.	
	1927	US-20050182451	08-18-2005	GRIFFIN; Adam et al.	
	1928	US-20050183954	08-25-2005	HITCHCOCK; Robert W. et al.	
	1929	US-20050187720	08-25-2005	GOODE Jr.; Paul V. et al.	
	1930	US-20050192557	09-01-2005	BRAUKER; James H. et al.	
	1931	US-20050195930	09-08-2005	SPITAL; Glenn O. et al.	

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	1932	US-20050196747	09-08-2005	STIENE; Matthias	
	1933	US-20050197554	09-08-2005	POLCHA; Michael	
	1934	US-20050199494	09-15-2005	SAY; James et al.	
	1935	US-20050203360	09-15-2005	BRAUKER; James H. et al.	
	1936	US-20050203364	09-15-2005	MONFRE; Stephen L. et al.	
	1937	US-20050209665	09-22-2005	HUNTER; William L. et al.	
	1938	US-20050211571	09-29-2005	SCHULEIN; Jurgen et al.	
	1939	US-20050215871	09-29-2005	FELDMAN; Benjamin J. et al.	
	1940	US-20050215872	09-29-2005	BERNER; Bret et al.	
	1941	US-20050215979	09-29-2005	KORNERUP; Grete et al.	
	1942	US-20050225361	10-13-2005	RHEE; Young-Chul	
	1943	US-20050228238	10-13-2005	MONITZER; Arnold	
	1944	US-20050233407	10-20-2005	PAMIDI; Prasad et al.	
	1945	US-20050236361	10-27-2005	UFER; Stefan et al.	
	1946	US-20050239154	10-27-2005	FELDMAN; Benjamin J. et al.	
	1947	US-20050239156	10-27-2005	DRUCKER; Steven et al.	
	1948	US-20050241957	11-03-2005	MAO; Fei et al.	
	1949	US-20050242479	11-03-2005	PETISCE; James R. et al.	
	1950	US-20050245795	11-03-2005	GOODE Jr.; Paul V. et al.	
	1951	US-20050245799	11-03-2005	BRAUKER; James H. et al.	

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	1952	US-20050251083	11-10-2005	CARR-BRENDEL VICTORIA . et al.	
	1953	US-20050258037	11-24-2005	HAJIZADEH; Kiamars et al.	
	1954	US-20050261563	11-24-2005	ZHOU; Peter et al.	
	1955	US-20050267325	12-01-2005	BOUCHIER; Mark S. et al.	
	1956	US-20050267440	12-01-2005	HERMAN; Stephen J. et al.	
	1957	US-20050271546	12-08-2005	GERBER; Martin et al.	
	1958	US-20050272989	12-08-2005	SHAH; Rajiv et al.	
	1959	US-20050277164	12-15-2005	DRUCKER; Steven et al.	
	1960	US-20050282997	12-22-2005	WARD; Robert S. et al.	
	1961	US-20050284758	12-29-2005	FUNKE; Tom et al.	
	1962	US-20050287620	12-29-2005	HELLER; Adam et al.	
	1963	US-20050288596	12-29-2005	EIGLER; Neal L. et al.	
	1964	US-20060001538	01-05-2006	KRAFT; Ulrich et al.	
	1965	US-20060001550	01-05-2006	MANN; Alfred E. et al.	
	1966	US-20060003398	01-05-2006	HELLER; Adam et al.	
	1967	US-20060007017	01-12-2006	MANN; Alfred E. et al.	
	1968	US-20060008370	01-12-2006	MASSARO; Peter et al.	
	1969	US-20060010098	01-12-2006	GOODNOW; Timothy T. et al.	
	1970	US-20060015020	01-19-2006	NEALE; Paul et al.	
	1971	US-20060015024	01-19-2006	BRISTER; Mark et al.	
	1972	US-20060016700	01-26-2006	BRISTER; Mark et al.	

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	1973	US-20060019327	01-26-2006	BRISTER; Mark et al.	
	1974	US-20060020186	01-26-2006	BRISTER; Mark et al.	
	1975	US-20060020187	01-26-2006	BRISTER; Mark et al.	
	1976	US-20060020188	01-26-2006	KAMATH; Apurv U. et al.	
	1977	US-20060020189	01-26-2006	BRISTER; Mark et al.	
	1978	US-20060020190	01-26-2006	KAMATH; Apurv U. et al.	
	1979	US-20060020191	01-26-2006	BRISTER; Mark et al.	
	1980	US-20060020192	01-26-2006	BRISTER; Mark et al.	
	1981	US-20060025663	02-02-2006	TALBOT; Cary D. et al.	
	1982	US-20060036139	02-16-2006	BRISTER; Mark et al.	
	1983	US-20060036140	02-16-2006	BRISTER; Mark et al.	
	1984	US-20060036141	02-16-2006	KAMATH; Apurv U. et al.	
	1985	US-20060036142	02-16-2006	BRISTER; Mark et al.	
	1986	US-20060036143	02-16-2006	BRISTER; Mark et al.	
	1987	US-20060036144	02-16-2006	BRISTER; Mark et al.	
	1988	US-20060036145	02-16-2006	BRISTER; Mark et al.	
	1989	US-20060040402	02-23-2006	BRAUKER; James H. et al.	
	1990	US-20060042080	03-02-2006	SAY; James et al.	
	1991	US-20060047215	03-02-2006	NEWMAN; Richard W. et al.	
	1992	US-20060049359	03-09-2006	BUSTA; Heinz H. et al.	
	1993	US-20060052745	03-09-2006	VAN ANTWERP; Nannette M. et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1994	US-20060065527	03-30-2006	SAMPRONI; Jennifer A.	
	1995	US-20060068208	03-30-2006	TAPSAK; Mark A. et al.	
	1996	US-20060074564	04-06-2006	BARTKOWIAK; Miroslaw et al.	
	1997	US-20060079740	04-13-2006	SILVER; James H. et al.	
	1998	US-20060079809	04-13-2006	GOLDBERGER; Daniel et al.	
	1999	US-20060086624	04-27-2006	TAPSAK; Mark A. et al.	
	2000	US-20060094946	05-04-2006	KELLOGG; Scott C. et al.	
	2001	US-20060100588	05-11-2006	BRUNNBERG; Lennart et al.	
	2002	US-20060118415	06-08-2006	SAY; James et al.	
	2003	US-20060142651	06-29-2006	BRISTER; Mark et al.	
	2004	US-20060155180	07-13-2006	BRISTER; Mark et al.	
	2005	US-20060159718	07-20-2006	RATHENOW; Jorg et al.	
	2006	US-20060159981	07-20-2006	HELLER; Adam	
	2007	US-20060166629	07-27-2006	REGGIARDO; Christopher V.	
	2008	US-20060169599	08-03-2006	FELDMAN; Benjamin J. et al.	
	2009	US-20060171980	08-03-2006	HELMUS; Michael N. et al.	
	2010	US-20060173444	08-03-2006	CHOY; David Y. et al.	
	2011	US-20060183178	08-17-2006	GULATI; Poonam S. et al.	
	2012	US-20060183871	08-17-2006	WARD; Robert S. et al.	
	2013	US-20060183984	08-17-2006	DOBBLES; J. Michael. et al.	

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Attorney Docket Number	DEXCOM.053C22

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	2014	US-20060183985	08-17-2006	BRISTER; Mark et al.	
	2015	US-20060189856	08-24-2006	PETISCE; James et al.	
	2016	US-20060189863	08-24-2006	PEYSER; Thomas et al.	
	2017	US-20060195029	08-31-2006	SHULTS; Mark C. et al.	
	2018	US-20060198864	09-07-2006	SHULTS; Mark et al.	
	2019	US-20060200019	09-07-2006	PETISCE; James et al.	
	2020	US-20060200020	09-07-2006	BRISTER; Mark et al.	
	2021	US-20060200022	09-07-2006	BRAUKER; James H. et al.	
	2022	US-20060200970	09-14-2006	BRISTER; Mark et al.	
	2023	US-20060200981	09-14-2006	BHULLAR; Raghbir S. et al.	
	2024	US-20060200982	09-14-2006	BHULLAR; Raghbir S. et al.	
	2025	US-20060204536	09-14-2006	SHULTS; Mark et al.	
	2026	US-20060211921	09-21-2006	BRAUKER; James H. et al.	
	2027	US-20060222566	10-05-2006	BRAUKER; James H. et al.	
	2028	US-20060224108	10-05-2006	BRAUKER; James H. et al.	
	2029	US-20060224109	10-05-2006	STEIL; Garry M. et al.	
	2030	US-20060224141	10-05-2006	RUSH; Benjamin M. et al.	
	2031	US-20060226985	10-12-2006	GOODNOW; Timothy T. et al.	
	2032	US-20060229512	10-12-2006	PETISCE; James R. et al.	
	2033	US-20060235285	10-19-2006	BRISTER; Mark et al.	
	2034	US-20060247508	11-02-2006	FENNELL; Martin J.	

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Art Unit	3791
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Attorney Docket Number	DEXCOM.053C22

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	2035	US-20060247710	11-02-2006	GOETZ; Steven M. et al.	
	2036	US-20060253085	11-09-2006	GEISMAR; Eric P. et al.	
	2037	US-20060253086	11-09-2006	MOBERG; Sheldon B. et al.	
	2038	US-20060257995	11-16-2006	SIMPSON; Peter et al.	
	2039	US-20060257996	11-16-2006	SIMPSON; Peter C. et al.	
	2040	US-20060258761	11-16-2006	BOOCK; Robert et al.	
	2041	US-20060258929	11-16-2006	GOODE Jr.; Paul V. et al.	
	2042	US-20060263673	11-23-2006	KIM; Jong K. et al.	
	2043	US-20060263763	11-23-2006	SIMPSON; Peter C. et al.	
	2044	US-20060263839	11-23-2006	WARD; W. Kenneth. et al.	
	2045	US-20060264888	11-23-2006	MOBERG; Sheldon B. et al.	
	2046	US-20060270922	11-30-2006	BRAUKER; James H. et al.	
	2047	US-20060270923	11-30-2006	BRAUKER; James H. et al.	
	2048	US-20060275859	12-07-2006	KJAER; Thomas	
	2049	US-20060281985	12-14-2006	WARD; W. Kenneth. et al.	
	2050	US-20060287691	12-21-2006	DREW; Touby A.	
	2051	US-20060289307	12-28-2006	YU; Bazhang et al.	
	2052	US-20060293576	12-28-2006	VAN ANTWERP; Nannette M. et al.	
	2053	US-20070003588	01-04-2007	CHINN; Joseph A. et al.	
	2054	US-20070007133	01-11-2007	MANG; Andre et al.	
	2055	US-20070016381	01-18-2007	KAMATH; Apurv et al.	

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	2056	US-20070017805	01-25-2007	HODGES; Alastair et al.	
	2057	US-20070027370	02-01-2007	BRAUKER; James H. et al.	
	2058	US-20070027381	02-01-2007	STAFFORD; Gary A.	
	2059	US-20070027384	02-01-2007	BRISTER; Mark et al.	
	2060	US-20070027385	02-01-2007	BRISTER; Mark et al.	
	2061	US-20070032706	02-08-2007	KAMATH; Apurv et al.	
	2062	US-20070032717	02-08-2007	BRISTER; Mark et al.	
	2063	US-20070032718	02-08-2007	SHULTS; Mark C. et al.	
	2064	US-20070038044	02-15-2007	DOBBLES; J. Michael. et al.	
	2065	US-20070045902	03-01-2007	BRAUKER; James H. et al.	
	2066	US-20070049865	03-01-2007	RADMER; Jim et al.	
	2067	US-20070049873	03-01-2007	HANSEN; Torben S. et al.	
	2068	US-20070059196	03-15-2007	BRISTER; Mark et al.	
	2069	US-20070060814	03-15-2007	STAFFORD; Gary A.	
	2070	US-20070066873	03-22-2007	KAMATH; Apurv et al.	
	2071	US-20070073129	03-29-2007	SHAH; Rajiv et al.	
	2072	US-20070078320	04-05-2007	STAFFORD; Gary A.	
	2073	US-20070078321	04-05-2007	MAZZA; John C. et al.	
	2074	US-20070078322	04-05-2007	STAFFORD; Gary A.	
	2075	US-20070085995	04-19-2007	PESACH; Benny et al.	
	2076	US-20070093704	04-26-2007	BRISTER; Mark et al.	
	2077	US-20070106135	05-10-2007	SLOAN; Mark K. et al.	

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	2078	US-20070111196	05-17-2007	ALARCON; Javier et al.	
	2079	US-20070116600	05-24-2007	KOCHAR; Manish S. et al.	
	2080	US-20070129524	06-07-2007	SUNKARA; Hari B.	
	2081	US-20070129619	06-07-2007	WARD; W. Kenneth. et al.	
	2082	US-20070129621	06-07-2007	KELLOGG; Scott C. et al.	
	2083	US-20070135698	06-14-2007	SHAH; Rajiv et al.	
	2084	US-20070135699	06-14-2007	WARD; W. Kenneth. et al.	
	2085	US-20070142584	06-21-2007	SCHORZMAN; Derek et al.	
	2086	US-20070149875	06-28-2007	OUYANG; Tianmei et al.	
	2087	US-20070151869	07-05-2007	HELLER; Adam et al.	
	2088	US-20070156033	07-05-2007	CAUSEY III; James D. et al.	
	2089	US-20070161070	07-12-2007	WILSEY; Christopher D.	
	2090	US-20070161880	07-12-2007	SAY; James et al.	
	2091	US-20070163880	07-19-2007	WOO; Kum M. et al.	
	2092	US-20070173706	07-26-2007	NEINAST; Mark et al.	
	2093	US-20070173709	07-26-2007	PETISCE; James R. et al.	
	2094	US-20070173710	07-26-2007	PETISCE; James R. et al.	
	2095	US-20070173711	07-26-2007	SHAH; Rajiv et al.	
	2096	US-20070179436	08-02-2007	BRAIG; James R. et al.	
	2097	US-20070191701	08-16-2007	FELDMAN; Benjamin J. et al.	
	2098	US-20070197889	08-23-2007	BRISTER; Mark et al.	

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	2099	US-20070197890	08-23-2007	BOOCK; Robert et al.	
	2100	US-20070200254	08-30-2007	CURRY; Kenneth M.	
	2101	US-20070200267	08-30-2007	TSAI; Steve	
	2102	US-20070202562	08-30-2007	CURRY; Kenneth M.	
	2103	US-20070202672	08-30-2007	CURRY; Kenneth M.	
	2104	US-20070203407	08-30-2007	HOSS; Udo et al.	
	2105	US-20070203410	08-30-2007	SAY; James et al.	
	2106	US-20070203966	08-30-2007	BRAUKER; James H. et al.	
	2107	US-20070206193	09-06-2007	PESACH; Benny	
	2108	US-20070208244	09-06-2007	BRAUKER; James H. et al.	
	2109	US-20070208245	09-06-2007	BRAUKER; James H. et al.	
	2110	US-20070208246	09-06-2007	BRAUKER; James H. et al.	
	2111	US-20070213610	09-13-2007	SAY; James et al.	
	2112	US-20070213611	09-13-2007	SIMPSON; Peter C. et al.	
	2113	US-20070215491	09-20-2007	HELLER; Adam et al.	
	2114	US-20070218097	09-20-2007	HELLER; Adam et al.	
	2115	US-20070219441	09-20-2007	CARLIN; Patrick et al.	
	2116	US-20070219496	09-20-2007	KAMEN; Dean et al.	
	2117	US-20070222609	09-27-2007	DURON; Mark et al.	
	2118	US-20070225579	09-27-2007	LUCASSEN; Gerard et al.	
	2119	US-20070225675	09-27-2007	ROBINSON; Mark Ries et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	2120	US-20070227907	10-04-2007	SHAH; Rajiv et al.	
	2121	US-20070232876	10-04-2007	OTTO; Erik et al.	
	2122	US-20070232879	10-04-2007	BRISTER; Mark et al.	
	2123	US-20070233013	10-04-2007	SCHOENBERG; Stephen J.	
	2124	US-20070235331	10-11-2007	SIMPSON; Peter C. et al.	
	2125	US-20070240497	10-18-2007	ROBINSON; Mark Ries et al.	
	2126	US-20070244381	10-18-2007	ROBINSON; Mark Ries et al.	
	2127	US-20070244382	10-18-2007	ROBINSON; Mark Ries et al.	
	2128	US-20070244383	10-18-2007	TALBOT; Cary D. et al.	
	2129	US-20070249916	10-25-2007	PESACH; Benny et al.	
	2130	US-20070249922	10-25-2007	PEYSER; Thomas A. et al.	
	2131	US-20070255114	11-01-2007	ACKERMANN; Friedrich et al.	
	2132	US-20070255126	11-01-2007	MOBERG; Sheldon B. et al.	
	2133	US-20070255531	11-01-2007	DREW; Touby A.	
	2134	US-20070258395	11-08-2007	JOLLOTA; James et al.	
	2135	US-20070259217	11-08-2007	LOGAN; Bruce	
	2136	US-20070275193	11-29-2007	DESIMONE; Joseph M. et al.	
	2137	US-20070276211	11-29-2007	MIR; Jose et al.	
	2138	US-20070282180	12-06-2007	CADUFF; Andreas et al.	
	2139	US-20070299385	12-27-2007	SANTINI Jr.; John T. et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	2140	US-20070299409	12-27-2007	WHITBOURNE; Richard J. et al.	
	2141	US-20080001318	01-03-2008	SCHORZMAN; Derek et al.	
	2142	US-20080009692	01-10-2008	STAFFORD; Gary Ashley	
	2143	US-20080017522	01-24-2008	HELLER; Adam et al.	
	2144	US-20080021666	01-24-2008	GOODE Jr.; Paul V. et al.	
	2145	US-20080027245	01-31-2008	SURI; Jeff T.	
	2146	US-20080029390	02-07-2008	ROCHE; Joelle et al.	
	2147	US-20080029391	02-07-2008	MAO; Fei et al.	
	2148	US-20080030369	02-07-2008	MANN; Alfred E. et al.	
	2149	US-20080033254	02-07-2008	KAMATH; Apurv Ullas. et al.	
	2150	US-20080033268	02-07-2008	STAFFORD; Gary Ashley	
	2151	US-20080033269	02-07-2008	ZHANG; Yanan	
	2152	US-20080034972	02-14-2008	GOUGH; David A. et al.	
	2153	US-20080039702	02-14-2008	HAYTER; Gary et al.	
	2154	US-20080045824	02-21-2008	TAPSAK; Mark A. et al.	
	2155	US-20080064941	03-13-2008	FUNDERBURK; Jeffery V. et al.	
	2156	US-20080064943	03-13-2008	TALBOT; Cary D. et al.	
	2157	US-20080064944	03-13-2008	VAN ANTWERP; Nannette M. et al.	
	2158	US-20080070231	03-20-2008	FRANCISKOVICH; Phillip P. et al.	
	2159	US-20080071156	03-20-2008	BRISTER; Mark et al.	

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Attorney Docket Number	DEXCOM.053C22

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	2160	US-20080071157	03-20-2008	MCGARRAUGH; Geoffrey V. et al.	
	2161	US-20080071158	03-20-2008	MCGARRAUGH; Geoffrey V. et al.	
	2162	US-20080071328	03-20-2008	HAUBRICH; Gregory J. et al.	
	2163	US-20080072663	03-27-2008	KEENAN; Richard et al.	
	2164	US-20080081969	04-03-2008	FELDMAN; Benjamin J. et al.	
	2165	US-20080083617	04-10-2008	SIMPSON; Peter C. et al.	
	2166	US-20080086040	04-10-2008	HELLER; Adam et al.	
	2167	US-20080086041	04-10-2008	HELLER; Adam et al.	
	2168	US-20080086042	04-10-2008	BRISTER; Mark et al.	
	2169	US-20080086043	04-10-2008	HELLER; Adam et al.	
	2170	US-20080086044	04-10-2008	BRISTER; Mark et al.	
	2171	US-20080086273	04-10-2008	SHULTS; Mark et al.	
	2172	US-20080091094	04-17-2008	HELLER; Adam et al.	
	2173	US-20080091095	04-17-2008	HELLER; Adam et al.	
	2174	US-20080108942	05-08-2008	BRISTER; Mark et al.	
	2175	US-20080119703	05-22-2008	BRISTER; Mark et al.	
	2176	US-20080119704	05-22-2008	BRISTER; Mark et al.	
	2177	US-20080119705	05-22-2008	PATEL; Himanshu et al.	
	2178	US-20080119706	05-22-2008	BRISTER; Mark et al.	
	2179	US-20080119707	05-22-2008	STAFFORD; Gary Ashley	

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	2180	US-20080125751	05-29-2008	FJIELD; Todd et al.	
	2181	US-20080139910	06-12-2008	MASTROTOTARO; John J. et al.	
	2182	US-20080154101	06-26-2008	JAIN; Faquir et al.	
	2183	US-20080161666	07-03-2008	FELDMAN; Benjamin J. et al.	
	2184	US-20080183061	07-31-2008	GOODE; Paul V. et al.	
	2185	US-20080183399	07-31-2008	GOODE; Paul V. et al.	
	2186	US-20080187655	08-07-2008	MARKLE; David R. et al.	
	2187	US-20080188722	08-07-2008	MARKLE; David R. et al.	
	2188	US-20080188725	08-07-2008	MARKLE; David R. et al.	
	2189	US-20080188731	08-07-2008	BRISTER; Mark et al.	
	2190	US-20080189051	08-07-2008	GOODE; Paul V. et al.	
	2191	US-20080193936	08-14-2008	SQUIRRELL; David James	
	2192	US-20080194837	08-14-2008	KIM; Yong-Chul et al.	
	2193	US-20080194935	08-14-2008	BRISTER; Mark et al.	
	2194	US-20080194936	08-14-2008	GOODE; Paul V. et al.	
	2195	US-20080194937	08-14-2008	GOODE; Paul V. et al.	
	2196	US-20080194938	08-14-2008	BRISTER; Mark et al.	
	2197	US-20080195232	08-14-2008	CARR-BRENDEL VICTORIA . et al.	
	2198	US-20080195967	08-14-2008	GOODE; Paul V. et al.	
	2199	US-20080197024	08-21-2008	SIMPSON; Peter C. et al.	

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	2200	US-20080200788	08-21-2008	BRISTER; Mark et al.	
	2201	US-20080200789	08-21-2008	BRISTER; Mark et al.	
	2202	US-20080200791	08-21-2008	SIMPSON; Peter C. et al.	
	2203	US-20080208025	08-28-2008	SHULTS; Mark C. et al.	
	2204	US-20080210557	09-04-2008	HELLER; Adam et al.	
	2205	US-20080214915	09-04-2008	BRISTER; Mark et al.	
	2206	US-20080214918	09-04-2008	BRISTER; Mark et al.	
	2207	US-20080228051	09-18-2008	SHULTS; Mark C. et al.	
	2208	US-20080228054	09-18-2008	SHULTS; Mark C. et al.	
	2209	US-20080235469	09-25-2008	DREW; Touby A.	
	2210	US-20080242961	10-02-2008	BRISTER; Mark et al.	
	2211	US-20080255438	10-16-2008	SAIDARA; Frank et al.	
	2212	US-20080255440	10-16-2008	EILERSEN; Michael et al.	
	2213	US-20080262334	10-23-2008	DUNN; Timothy C. et al.	
	2214	US-20080262469	10-23-2008	BRISTER; Mark C. et al.	
	2215	US-20080275313	11-06-2008	BRISTER; Mark et al.	
	2216	US-20080275326	11-06-2008	KASIELKE; Joachim et al.	
	2217	US-20080287764	11-20-2008	RASDAL; Andrew et al.	
	2218	US-20080287765	11-20-2008	RASDAL; Andrew et al.	
	2219	US-20080287766	11-20-2008	RASDAL; Andrew et al.	
	2220	US-20080296155	12-04-2008	SHULTS; Mark C. et al.	
	2221	US-20080305009	12-11-2008	GAMSEY; Soya et al.	

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	2222	US-20080305506	12-11-2008	SURI; Jeff T.	
	2223	US-20080306368	12-11-2008	GOODE Jr.; Paul V. et al.	
	2224	US-20080306433	12-11-2008	CESARONI; Anthony J.	
	2225	US-20080306434	12-11-2008	DOBBLES; John Michael et al.	
	2226	US-20080306435	12-11-2008	KAMATH; Apurv U. et al.	
	2227	US-20080306444	12-11-2008	BRISTER; Mark C. et al.	
	2228	US-20080312397	12-18-2008	LAI; Yu-Chin et al.	
	2229	US-20080312518	12-18-2008	JINA; Arvind N. et al.	
	2230	US-20080312859	12-18-2008	SKYGGEBJERG; Ole et al.	
	2231	US-20080313896	12-25-2008	SHAH; Rajiv et al.	
	2232	US-20090005666	01-01-2009	SHIN; John J. et al.	
	2233	US-20090012379	01-08-2009	GOODE Jr.; Paul V. et al.	
	2234	US-20090018418	01-15-2009	MARKLE; David R. et al.	
	2235	US-20090018424	01-15-2009	KAMATH; Apurv Ullas et al.	
	2236	US-20090018425	01-15-2009	OUYANG; Tianmei et al.	
	2237	US-20090018426	01-15-2009	MARKLE; David R. et al.	
	2238	US-20090020502	01-22-2009	BHULLAR; Raghbir S. et al.	
	2239	US-20090030294	01-29-2009	PETISCE; James R. et al.	
	2240	US-20090036758	02-05-2009	BRAUKER; James H. et al.	
	2241	US-20090036763	02-05-2009	BRAUKER; James H. et al.	
	2242	US-20090043181	02-12-2009	BRAUKER; James H. et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	2243	US-20090043182	02-12-2009	BRAUKER; James H. et al.	
	2244	US-20090043525	02-12-2009	BRAUKER; James H. et al.	
	2245	US-20090043541	02-12-2009	BRAUKER; James H. et al.	
	2246	US-20090043542	02-12-2009	BRAUKER; James H. et al.	
	2247	US-20090045055	02-19-2009	RHODES; Rathbun K. et al.	
	2248	US-20090054748	02-26-2009	FELDMAN; Benjamin J.	
	2249	US-20090054812	02-26-2009	MACE; Chad Harold	
	2250	US-20090061528	03-05-2009	SURI; Jeff T.	
	2251	US-20090062633	03-05-2009	BRAUKER; James H. et al.	
	2252	US-20090062635	03-05-2009	BRAUKER; James H. et al.	
	2253	US-20090062645	03-05-2009	FEHRE; Jens et al.	
	2254	US-20090076356	03-19-2009	SIMPSON; Peter C. et al.	
	2255	US-20090076360	03-19-2009	BRISTER; Mark et al.	
	2256	US-20090076361	03-19-2009	KAMATH; Apurv Ullas et al.	
	2257	US-20090081803	03-26-2009	GAMSEY; Soya et al.	
	2258	US-20090085768	04-02-2009	PATEL; Himanshu et al.	
	2259	US-20090099434	04-16-2009	LIU; Zenghe et al.	
	2260	US-20090099436	04-16-2009	BRISTER; Mark et al.	
	2261	US-20090112478	04-30-2009	MUELLER Jr.; John C. et al.	
	2262	US-20090124877	05-14-2009	GOODE Jr.; Paul V. et al.	
	2263	US-20090124878	05-14-2009	GOODE Jr.; Paul V. et al.	
	2264	US-20090124879	05-14-2009	BRISTER; Mark et al.	

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First Named Inventor	PRYOR; Jack
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Attorney Docket Number	DEXCOM.053C22

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	2265	US-20090124964	05-14-2009	LEACH; Jacob S. et al.	
	2266	US-20090131768	05-21-2009	SIMPSON; Peter C. et al.	
	2267	US-20090131769	05-21-2009	LEACH; Jacob S. et al.	
	2268	US-20090131776	05-21-2009	SIMPSON; Peter C. et al.	
	2269	US-20090131777	05-21-2009	SIMPSON; Peter C. et al.	
	2270	US-20090137886	05-28-2009	SHARIATI; Mohammad Ali et al.	
	2271	US-20090137887	05-28-2009	SHARIATI; Mohammad Ali et al.	
	2272	US-20090143659	06-04-2009	LI; Ying et al.	
	2273	US-20090143660	06-04-2009	BRISTER; Mark et al.	
	2274	US-20090150186	06-11-2009	COHEN; Gary et al.	
	2275	US-20090156919	06-18-2009	BRISTER; Mark et al.	
	2276	US-20090156924	06-18-2009	SHARIATI; Mohammad Ali et al.	
	2277	US-20090163790	06-25-2009	BRISTER; Mark et al.	
	2278	US-20090163791	06-25-2009	BRISTER; Mark et al.	
	2279	US-20090177059	07-09-2009	SAY; James et al.	
	2280	US-20090177060	07-09-2009	SAY; James et al.	
	2281	US-20090177143	07-09-2009	MARKLE; William H. et al.	
	2282	US-20090178459	07-16-2009	LI; Ying et al.	
	2283	US-20090182217	07-16-2009	LI; Ying et al.	
	2284	US-20090187090	07-23-2009	SAY; James et al.	

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	2285	US-20090187091	07-23-2009	SAY; James et al.	
	2286	US-20090192366	07-30-2009	MENSINGER; Michael Robert et al.	
	2287	US-20090192380	07-30-2009	SHARIATI; Mohammad Ali et al.	
	2288	US-20090192722	07-30-2009	SHARIATI; Mohammad Ali et al.	
	2289	US-20090192724	07-30-2009	BRAUKER; James H. et al.	
	2290	US-20090192745	07-30-2009	KAMATH; Apurv Ullas et al.	
	2291	US-20090192751	07-30-2009	KAMATH; Apurv Ullas et al.	
	2292	US-20090203981	08-13-2009	BRAUKER; James H. et al.	
	2293	US-20090204340	08-13-2009	FELDMAN; Benjamin J. et al.	
	2294	US-20090204341	08-13-2009	BRAUKER; James H. et al.	
	2295	US-20090216103	08-27-2009	BRISTER; Mark et al.	
	2296	US-20090240120	09-24-2009	MENSINGER; Michael Robert et al.	
	2297	US-20090240128	09-24-2009	MENSINGER; Michael Robert et al.	
	2298	US-20090240193	09-24-2009	MENSINGER; Michael Robert et al.	
	2299	US-20090242399	10-01-2009	KAMATH; Apurv Ullas et al.	
	2300	US-20090242425	10-01-2009	KAMATH; Apurv Ullas et al.	
	2301	US-20090247855	10-01-2009	BOOCK; Robert et al.	
	2302	US-20090247856	10-01-2009	BOOCK; Robert et al.	

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	2303	US-20090247857	10-01-2009	HARPER; Wesley Scott et al.	
	2304	US-20090264719	10-22-2009	MARKLE; David R. et al.	
	2305	US-20090264856	10-22-2009	LEBEL; Ronald J. et al.	
	2306	US-20090287073	11-19-2009	BOOCK; Robert et al.	
	2307	US-20090287074	11-19-2009	SHULTS; Mark et al.	
	2308	US-20090299155	12-03-2009	YANG; Richard C. et al.	
	2309	US-20090299156	12-03-2009	SIMPSON; Peter C. et al.	
	2310	US-20090299162	12-03-2009	BRAUKER; James H. et al.	
	2311	US-20090299276	12-03-2009	BRAUKER; James H. et al.	
	2312	US-20090310743	12-17-2009	CARPENTER; Scott E. et al.	
	2313	US-20100010324	01-14-2010	BRAUKER; James H. et al.	
	2314	US-20100010330	01-14-2010	RANKERS; Ulrich et al.	
	2315	US-20100010331	01-14-2010	BRAUKER; James H. et al.	
	2316	US-20100010332	01-14-2010	BRAUKER; James H. et al.	
	2317	US-20100016687	01-21-2010	BRAUKER; James H. et al.	
	2318	US-20100016698	01-21-2010	RASDAL; Andrew et al.	
	2319	US-20100022855	01-28-2010	BRAUKER; James H. et al.	
	2320	US-20100030038	02-04-2010	BRAUKER; James H. et al.	
	2321	US-20100030053	02-04-2010	GOODE Jr.; Paul V. et al.	
	2322	US-20100030484	02-04-2010	BRAUKER; James H. et al.	
	2323	US-20100030485	02-04-2010	BRAUKER; James H. et al.	

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	2324	US-20100036215	02-11-2010	GOODE Jr.; Paul V. et al.	
	2325	US-20100036216	02-11-2010	GOODE Jr.; Paul V. et al.	
	2326	US-20100036222	02-11-2010	GOODE Jr.; Paul V. et al.	
	2327	US-20100036223	02-11-2010	GOODE Jr.; Paul V. et al.	
	2328	US-20100036224	02-11-2010	GOODE Jr.; Paul V. et al.	
	2329	US-20100036225	02-11-2010	GOODE Jr.; Paul V. et al.	
	2330	US-20100041971	02-18-2010	GOODE Jr.; Paul V. et al.	
	2331	US-20100045465	02-25-2010	BRAUKER; James H. et al.	
	2332	US-20100049024	02-25-2010	SAINT; Sean et al.	
	2333	US-20100063373	03-11-2010	KAMATH; Apurv Ullas et al.	
	2334	US-20100069728	03-18-2010	FUNDERBURK; Jeffery V. et al.	
	2335	US-20100076283	03-25-2010	SIMPSON; Peter C. et al.	
	2336	US-20100081908	04-01-2010	DOBBLES; J. Michael. et al.	
	2337	US-20100081910	04-01-2010	BRISTER; Mark et al.	
	2338	US-20100087721	04-08-2010	STAFFORD; Gary Ashley	
	2339	US-20100087724	04-08-2010	BRAUKER; James H. et al.	
	2340	US-20100096259	04-22-2010	ZHANG; Huashi et al.	
	2341	US-20100099970	04-22-2010	SHULTS; Mark C. et al.	
	2342	US-20100099971	04-22-2010	SHULTS; Mark C. et al.	
	2343	US-20100113897	05-06-2010	BRENNEMAN; Allen J. et al.	
	2344	US-20100119693	05-13-2010	TAPSAK; Mark A. et al.	

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	2345	US-20100121169	05-13-2010	PETISCE; James R. et al.	
	2346	US-20100161269	06-24-2010	KAMATH; Apurv Ullas et al.	
	2347	US-20100168543	07-01-2010	KAMATH; Apurv Ullas et al.	
	2348	US-20100168545	07-01-2010	KAMATH; Apurv Ullas et al.	
	2349	US-20100168546	07-01-2010	KAMATH; Apurv Ullas et al.	
	2350	US-20100174157	07-08-2010	BRISTER; Mark et al.	
	2351	US-20100174158	07-08-2010	KAMATH; Apurv Ullas et al.	
	2352	US-20100174163	07-08-2010	BRISTER; Mark et al.	
	2353	US-20100174164	07-08-2010	BRISTER; Mark et al.	
	2354	US-20100174165	07-08-2010	BRISTER; Mark et al.	
	2355	US-20100174166	07-08-2010	BRISTER; Mark et al.	
	2356	US-20100174167	07-08-2010	KAMATH; Apurv Ullas et al.	
	2357	US-20100174168	07-08-2010	GOODE Jr.; Paul V. et al.	
	2358	US-20100179399	07-15-2010	GOODE Jr.; Paul V. et al.	
	2359	US-20100179400	07-15-2010	BRAUKER; James H. et al.	
	2360	US-20100179401	07-15-2010	RASDAL; Andrew et al.	
	2361	US-20100179402	07-15-2010	GOODE Jr.; Paul V. et al.	
	2362	US-20100179404	07-15-2010	KAMATH; Apurv Ullas et al.	
	2363	US-20100179405	07-15-2010	GOODE Jr.; Paul V. et al.	
	2364	US-20100179406	07-15-2010	GOODE Jr.; Paul V. et al.	
	2365	US-20100179407	07-15-2010	GOODE Jr.; Paul V. et al.	
	2366	US-20100179408	07-15-2010	KAMATH; Apurv et al.	

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	2367	US-20100179409	07-15-2010	KAMATH; Apurv Ullas et al.	
	2368	US-20100185065	07-22-2010	GOODE Jr.; Paul V. et al.	
	2369	US-20100185069	07-22-2010	BRISTER; Mark et al.	
	2370	US-20100185070	07-22-2010	BRISTER; Mark et al.	
	2371	US-20100185071	07-22-2010	SIMPSON; Peter C. et al.	
	2372	US-20100185072	07-22-2010	GOODE Jr.; Paul V. et al.	
	2373	US-20100185073	07-22-2010	GOODE Jr.; Paul V. et al.	
	2374	US-20100185074	07-22-2010	GOODE Jr.; Paul V. et al.	
	2375	US-20100185075	07-22-2010	BRISTER; Mark et al.	
	2376	US-20100191082	07-29-2010	BRISTER; Mark et al.	
	2377	US-20100198035	08-05-2010	KAMATH; Apurv Ullas et al.	
	2378	US-20100204555	08-12-2010	SHULTS; Mark C. et al.	
	2379	US-20100212583	08-26-2010	BRISTER; Mark et al.	
	2380	US-20100214104	08-26-2010	GOODE Jr.; Paul V. et al.	
	2381	US-20100217106	08-26-2010	GOODE Jr.; Paul V. et al.	
	2382	US-20100217555	08-26-2010	KAMATH; Apurv Ullas et al.	
	2383	US-20100234707	09-16-2010	GOODE Jr.; Paul V. et al.	
	2384	US-20100234796	09-16-2010	KAMATH; Apurv U. et al.	
	2385	US-20100235106	09-16-2010	KAMATH; Apurv U. et al.	
	2386	US-20100240975	09-23-2010	GOODE Jr.; Paul V. et al.	
	2387	US-20100240976	09-23-2010	GOODE Jr.; Paul V. et al.	
	2388	US-20100256779	10-07-2010	BRAUKER; James H. et al.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

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	2389	US-20100286496	11-11-2010	SIMPSON; Peter C. et al.	
	2390	US-20100305869	12-02-2010	BRAUKER; James H. et al.	
	2391	US-20100331648	12-30-2010	KAMATH; Apurv Ullas et al.	
	2392	US-20100331655	12-30-2010	KAMATH; Apurv Ullas et al.	
	2393	US-20100331656	12-30-2010	MENSINGER; Michael Robert et al.	
	2394	US-20100331657	12-30-2010	MENSINGER; Michael Robert et al.	
	2395	US-20110009727	01-13-2011	MENSINGER; Michael Robert et al.	
	2396	US-20110027127	02-03-2011	SIMPSON; Peter C. et al.	
	2397	US-20110028815	02-03-2011	SIMPSON; Peter C. et al.	
	2398	US-20110028816	02-03-2011	SIMPSON; Peter C. et al.	
	2399	US-20110046467	02-24-2011	SIMPSON; Peter C. et al.	
	2400	US-20110087196	04-14-2011	HUNN; Marcel et al.	
	2401	US-20110118579	05-19-2011	GOODE Jr.; Paul V. et al.	
	2402	US-20110124992	05-26-2011	BRAUKER; James H. et al.	
	2403	US-20110124997	05-26-2011	GOODE Jr.; Paul V. et al.	
	2404	US-20110128052	06-02-2011	FUJIBE; Tasuku et al.	
	2405	US-20110130639	06-02-2011	FELDMAN; Benjamin J.	
	2406	US-20110130970	06-02-2011	GOODE Jr.; Paul V. et al.	
	2407	US-20110136249	06-09-2011	STIENE; Matthias	
	2408	US-20110137601	06-09-2011	GOODE Jr.; Paul V. et al.	

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	2409	US-20110144465	06-16-2011	SHULTS; Mark C. et al.	
	2410	US-20110178378	07-21-2011	BRISTER; Mark et al.	
	2411	US-20110190614	08-04-2011	BRISTER; Mark et al.	
	2412	US-20110201910	08-18-2011	RASDAL; Andrew et al.	
	2413	US-20110218414	09-08-2011	KAMATH; Apurv et al.	
	2414	US-20110231107	09-22-2011	BRAUKER; James H. et al.	
	2415	US-20110231140	09-22-2011	GOODE Jr.; Paul V. et al.	
	2416	US-20110231141	09-22-2011	GOODE Jr.; Paul V. et al.	
	2417	US-20110231142	09-22-2011	GOODE Jr.; Paul V. et al.	
	2418	US-20110253533	10-20-2011	SHULTS; Mark C. et al.	
	2419	US-20110257895	10-20-2011	BRAUKER; James H. et al.	
	2420	US-20110263958	10-27-2011	BRAUKER; James H. et al.	
	2421	US-20110270158	11-03-2011	BRAUKER; James H. et al.	
	2422	US-20110290645	12-01-2011	BRISTER; Mark et al.	
	2423	US-20110313543	12-22-2011	BRAUKER; James H. et al.	
	2424	US-20110319739	12-29-2011	KAMATH; Apurv Ullas et al.	
	2425	US-20120130214	05-24-2012	BRISTER; Mark et al.	
	2426	US-20120172691	07-05-2012	BRAUKER; James H. et al.	
	2427	US-20120265042	10-18-2012	NEINAST; Mark et al.	
	2428	US-20120277562	11-01-2012	BRISTER; Mark et al.	
	2429	US-20120277566	11-01-2012	KAMATH; Apurv Ullas et al.	
	2430	US-20130012798	01-10-2013	BRISTER; Mark et al.	

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	2431	US-20130060112	03-07-2013	PRYOR; Jack et al.	
	2432	US-20130131478	05-23-2013	SIMPSON; Peter C. et al.	
	2433	US-20130255570	10-03-2013	BRISTER; Mark et al.	
	2434	US-20130267808	10-10-2013	BRISTER; Mark et al.	
	2435	US-20130281931	10-24-2013	HUNN; Marcel et al.	
	2436	US-20130296677	11-07-2013	PRYOR; Jack et al.	
	2437	US-20140128704	05-08-2014	SIMPSON; Peter C. et al.	
	2438	US-20140142405	05-22-2014	BRISTER; Mark et al.	
	2439	US-20140257065	09-11-2014	BRISTER; Mark et al.	
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	2441	US-20160008029	01-14-2016	BRISTER; Mark C. et al.	
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	2443	US-20160310051	10-27-2016	BRISTER; Mark C. et al.	
	2444	US-20170196491	07-13-2017	BRISTER; Mark C. et al.	
	2445	US-20170367627	12-28-2017	BRISTER; Mark C. et al.	
	2446	US-20180014762	01-18-2018	BRISTER; Mark C. et al.	
	2447	US-20180049682	02-22-2018	BRISTER; Mark C. et al.	
	2448	US-20180055423	03-01-2018	PRYOR; Jack et al.	
	2449	US-20180140236	05-24-2018	BRISTER; Mark C. et al.	
	2450	US-20180160949	06-14-2018	BRISTER; Mark et al.	
	2451	US-20180242894	08-30-2018	BRAUKER; James H. et al.	
	2452	US-20180303394	10-25-2018	BRAUKER; James H. et al.	

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	2453	US-20190015020	01-17-2019	BRISTER; Mark C. et al.	
	2454	US-20190069817	03-07-2019	BRISTER; Mark et al.	
	2455	US-20190076071	03-14-2019	BRISTER; Mark C. et al.	
	2456	US-20190320951	10-24-2019	PRYOR; Jack et al.	
	2457	US-20190320952	10-24-2019	PRYOR; Jack et al.	
	2458	US-20190320953	10-24-2019	PRYOR; Jack et al.	
	2459	US-20190320954	10-24-2019	PRYOR; Jack et al.	
	2460	US-20190320955	10-24-2019	PRYOR; Jack et al.	
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	2463	US-20190343436	11-14-2019	PRYOR; Jack	
	2464	US-20190350503	11-21-2019	JACK; Pryor	
	2465	US-20190350504	11-21-2019	JACK; Pryor	
	2466	US-20190357821	11-28-2019	BRISTER; Mark C. et al.	
	2467	US-20190357822	11-28-2019	JACK; Pryor	

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	001	CA-2127172-C	07-14-1998	BAYER AG [US]		☐

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	002	CN-101026994-A	08-29-2007	NOVO NORDISK AS [DK]		☐
	003	DE-10117285-A1	11-07-2002	DISETRONIC LICENSING AG [CH]		☐
	004	DE-20110059-U1	08-14-2002	DISETRONIC LICENSING AG [CH]		☐
	005	DE-2658734-A1	06-29-1978	DRAEGERWERK AG.		☐
	006	DE-3144459-A1	10-14-1982	HORIBA LTD [JP]		☐
	007	DE-3933373-C2	09-10-1992	HOELL THOMAS.		☐
	008	DE-4105222-A1	08-27-1992	SCHAEFER WIELAND DR SC [DE], et al.		☐
	009	DE-4401400-A1	07-20-1995	PFEIFFER ERNST PROF DR [DE]		☐
	010	EP-0098592-A2	01-18-1984	FUJISAWA PHARMACEUTICAL CO [JP]		☐
	011	EP-0107634-A2	05-02-1984	HELLGREN LARS GUSTAV INGE. et al.		☐

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	012	EP-0127958-A2	12-12-1984	GENETICS INT INC [US]		☐
	013	EP-0143517-A1	06-05-1985	RENAL SYSTEMS [US]		☐
	014	EP-0143517-B1	04-05-1989	MINNTECH CORPORATION.		☐
	015	EP-0191640-B2	11-15-1995	ABBOTT LAB [US]		☐
	016	EP-0262328-B1	01-27-1993	ABBOTT LAB [US]		☐
	017	EP-0264036-B1	06-30-1993	ABBOTT LAB [US]		☐
	018	EP-0275139-B1	04-15-1992	SYNTEX INC.		☐
	019	EP-0279069-B1	07-13-1994	ABBOTT LAB [US]		☐
	020	EP-0282349-A2	09-14-1988	MEDISENSE INC [US]		☐
	021	EP-0284518-A2	09-28-1988	FUJITSU LTD., et al.		☐

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Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	022	EP-0286039-A2	10-12-1988	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐
	023	EP-0286118-A2	10-12-1988	NOVA BIOMEDICAL CORP [US]		☐
	024	EP-0286118-B1	01-25-1995	NOVA BIOMEDICAL CORP [US]		☐
	025	EP-0288793-A2	11-02-1988	ABBOTT LAB [US]		☐
	026	EP-0314027-A1	05-03-1989	DRAEGERWERK AG [DE]		☐
	027	EP-0319277-A1	06-07-1989	PACESETTER INFUSION LTD [US]		☐
	028	EP-0319277-B1	03-31-1993	PACESETTER INFUSION LTD.		☐
	029	EP-0320109-A1	06-14-1989	MEDISENSE INC [US]		☐
	030	EP-0323605-B1	01-26-1994	ABBOTT LAB [US]		☐
	031	EP-0351891-B1	09-29-1993	MEDISENSE INC.		☐

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Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	032	EP-0351892-A2	01-24-1990	MEDISENSE INC [US]		☐
	033	EP-0352138-A2	01-24-1990	MEDISENSE INC [US]		☐
	034	EP-0352610-A2	01-31-1990	ABBOTT LAB [US]		☐
	035	EP-0352631-A2	01-31-1990	ABBOTT LAB [US]		☐
	036	EP-0352708-A2	01-31-1990	ABBOTT LAB [US]		☐
	037	EP-0353328-A1	02-07-1990	PPG HELLIGE BV [NL]		☐
	038	EP-0387696-B1	08-27-1997	ABBOTT LAB [US]		☐
	039	EP-0390390-A1	10-03-1990	ASS UNIVERSITIES INC [US], et al.		☐
	040	EP-0396788-A1	11-14-1990	DRAEGER NEDERLAND B V [NL]		☐
	041	EP-0406473-A1	01-09-1991	ABBOTT LAB [US]		☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	042	EP-0420021-A2	04-03-1991	ABBOTT LAB [US]		☐
	043	EP-0424633-B1	01-17-1996	ABBOTT LAB [US]		☐
	044	EP-0424634-B1	06-14-1995	ABBOTT LAB [US]		☐
	045	EP-0440044-A1	08-07-1991	ABBOTT LAB [US]		☐
	046	EP-0441252-A2	08-14-1991	ABBOTT LAB [US]		☐
	047	EP-0441394-A2	08-14-1991	MINNESOTA MINING & MFG [US]		☐
	048	EP-0457292-A2	11-21-1991	ABBOTT LAB [US]		☐
	049	EP-0467078-A2	01-22-1992	ABBOTT LAB [US]		☐
	050	EP-0470652-B1	12-18-1996	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐
	051	EP-0471391-A2	02-19-1992	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐

Examiner Signature		Date Considered	

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Sheet 126 of 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	052	EP-0473065-A2	03-04-1992	ABBOTT LAB [US]		☐
	053	EP-0476715-B1	12-18-1996	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐
	054	EP-0476980-A2	03-25-1992	FUJITSU LTD [JP]		☐
	055	EP-0477501-A2	04-01-1992	ABBOTT LAB [US]		☐
	056	EP-0478550-B1	01-25-1995	BRITISH TECH GROUP [GB]		☐
	057	EP-0494704-A3	09-02-1992	THE FLINDERS UNIVERSITY OF SOUTH AUSTRALIA.		☐
	058	EP-0494705-A3	09-02-1992	THE FLINDERS UNIVERSITY OF SOUTH AUSTRALIA.		☐
	059	EP-0508388-A1	10-14-1992	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐
	060	EP-0512122-A1	11-11-1992	TORAY INDUSTRIES [JP]		☐

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Sheet 127 of 274

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Application Number	16690977
Filing Date	11-21-2019
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Art Unit	3791
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	061	EP-0520430-A2	12-30-1992	ROHM CO LTD [JP]		☐
	062	EP-0520443-A2	12-30-1992	PPG INDUSTRIES INC [US]		☐
	063	EP-0532187-B1	10-30-1996	BEHRINGWERKE AG [DE]		☐
	064	EP-0534074-A1	03-31-1993	INST DIABETESTECHNOLOGIE GEMEI [DE]		☐
	065	EP-0534074-B1	03-06-1996	INST DIABETESTECHNOLOGIE GEMEI [DE]		☐
	066	EP-0535898-A1	04-07-1993	LILLY CO ELI [US]		☐
	067	EP-0539625-A1	05-05-1993	DRAEGER MED ELECTRONICS BV [NL]		☐
	068	EP-0561966-B1	10-05-1994	TNO [NL]		☐
	069	EP-0563795-A1	10-06-1993	DAINIPPON PRINTING CO LTD [JP], et al.		☐

Examiner Signature		Date Considered	

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	070	EP-0567725-A1	11-03-1993	UNIV CALIFORNIA [US]		☐
	071	EP-0587008-B1	02-10-1999	ABBOTT LAB [US]		☐
	072	EP-0593096-A3	12-03-1997	MEDISENSE INC [US]		☐
	073	EP-0595474-A3	07-13-1994	PACESETTER INFUSION LTD [DE]		☐
	074	EP-0647849-A2	04-12-1995	IGEN INC [US]		☐
	075	EP-0674176-B1	02-04-2004	IGEN INT INC [US]		☐
	076	EP-0677743-A2	10-18-1995	MINIMED INC [US]		☐
	077	EP-0678308-B1	05-24-2000	MINIMED INC [US]		☐
	078	EP-0690134-A1	01-03-1996	CIBA CORNING DIAGNOSTICS CORP [US]		☐
	079	EP-0709677-A2	05-01-1996	BOEHRINGER MANNHEIM GMBH [DE]		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	080	EP-0747069-A2	12-11-1996	COOK INC [US]		☐
	081	EP-0776628-A2	06-04-1997	YOSHIDA AKITOSHI [JP]		☐
	082	EP-0777122-B1	04-10-2002	ELSAG INTERNAT N V [NL]		☐
	083	EP-0817809-A1	01-14-1998	MINIMED INC [US]		☐
	084	EP-0817809-B1	07-31-2002	MEDTRONIC MINIMED INC [US]		☐
	085	EP-0824900-B1	04-02-2003	ADVANCED CARDIOVASCULAR SYSTEM [US]		☐
	086	EP-0838230-A2	04-29-1998	TERUMO CORP [JP]		☐
	087	EP-0846776-B1	03-10-2004	VYSIS INC [US]		☐
	088	EP-0877252-B1	01-10-2007	BIOVERIS CORP [US]		☐
	089	EP-0880936-A2	12-02-1998	AKAI KOJI [JP]		☐

Examiner Signature		Date Considered	

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	090	EP-0885932-A2	12-23-1998	OSI SPECIALTIES INC [US]		☐
	091	EP-0922959-B1	10-25-2006	ROCHE DIAGNOSTICS GMBH [DE]		☐
	092	EP-0958495-B1	11-13-2002	THERASENSE INC [US]		☐
	093	EP-0967788-A2	12-29-1999	HEWLETT PACKARD CO [US]		☐
	094	EP-0995805-A1	04-26-2000	BEURET PIERRE [CH]		☐
	095	EP-1028320-A3	03-14-2001	ABBOTT LAB [US]		☐
	096	EP-1048264-A1	11-02-2000	MEDTRONIC INC [US]		☐
	097	EP-1077634-A1	02-28-2001	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	098	EP-1077636-B1	01-21-2004	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	099	EP-1078258-A1	02-28-2001	CYGNUS THERAPEUTIC SYSTEMS [US]		☐

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	100	EP-1111378-A2	06-27-2001	ROCHE DIAGNOSTICS CORP [US]		☐
	101	EP-1112717-A1	07-04-2001	ABBOTT LAB [US]		☐
	102	EP-1112718-A1	07-04-2001	ABBOTT LAB [US]		☐
	103	EP-1120084-A1	08-01-2001	ABBOTT LAB [US]		☐
	104	EP-1120085-A1	08-01-2001	ABBOTT LAB [US]		☐
	105	EP-1120650-A2	08-01-2001	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	106	EP-1130386-A1	09-05-2001	AU MEMBRANE & BIOTECH RES INST [AU], et al.		☐
	107	EP-1153571-A1	11-14-2001	MENARINI FARMA IND [IT]		☐
	108	EP-1234053-B1	04-18-2007	I STAT CORP [US]		☐
	109	EP-1251137-A2	10-23-2002	GENENTECH INC [US], et al.		☐

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	110	EP-1258728-A2	11-20-2002	AMIRA MEDICAL [US]		☐
	111	EP-1266607-A2	12-18-2002	LIFESCAN INC [US]		☐
	112	EP-1281351-A2	02-05-2003	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	113	EP-1286164-B1	07-25-2007	BIOVERIS CORP [US]		☐
	114	EP-1340980-A1	09-03-2003	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	115	EP-1340981-A2	09-03-2003	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	116	EP-1391728-A1	02-25-2004	LIFESCAN INC [US]		☐
	117	EP-1413245-A2	04-28-2004	MEDTRONIC MINIMED INC [US]		☐
	118	EP-1430831-A1	06-23-2004	LIFESCAN INC [US]		☐
	119	EP-1457913-B1	12-17-2008	ABBOTT LAB [US]		☐

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	120	EP-1498067-A1	01-19-2005	MATSUSHITA ELECTRIC IND CO LTD [JP]		☐
	121	EP-1498428-A1	01-19-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	122	EP-1582874-B1	07-09-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	123	EP-1612560-B1	10-31-2007	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	124	EP-1614464-A1	01-11-2006	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	125	EP-1717924-A2	11-02-2006	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	126	EP-1798542-A1	06-20-2007	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	127	EP-1804650-A1	07-11-2007	DEXCOM INC [US]		☐
	128	EP-1905514-A1	04-02-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	129	EP-1977829-A1	10-08-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐

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	130	EP-1982644-A1	10-22-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	131	EP-2223710-A1	09-01-2010	DEXCOM INC [US]		☐
	132	EP-2226086-A1	09-08-2010	DEXCOM INC [US]		☐
	133	EP-2228642-A1	09-15-2010	DEXCOM INC [US]		☐
	134	EP-2236077-A1	10-06-2010	SENSILE PAT AG [CH]		☐
	135	EP-2327362-A1	06-01-2011	DEXCOM INC [US]		☐
	136	EP-2329770-B1	09-10-2014	DEXCOM INC [US]		☐
	137	EP-2335584-B1	06-17-2015	DEXCOM INC [US]		☐
	138	EP-2407094-B1	10-22-2014	DEXCOM INC [US]		☐
	139	FR-2656423-A1	06-28-1991	RHONE POULENC CHIMIE [FR]		☐

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	140	FR-2760962-A1	09-25-1998	KLEFSTAD SILLONVILLE FRANCIS [FR]		☐
	141	GB-1442303-A	07-14-1976	RADIOMETER AS.		☐
	142	GB-1556969-A	12-05-1979	DRAEGERWERK AG.		☐
	143	GB-2149918-A	06-19-1985	ANDERSON JOHN.		☐
	144	GB-2230865-A	10-31-1990	NAT RES DEV [GB]		☐
	145	JP-2000060826-A	02-29-2000	OMRON TATEISI ELECTRONICS CO.		☐
	146	JP-2000149072-A	05-30-2000	NIPPON SIGNAL CO LTD.		☐
	147	JP-2002189015-A	07-05-2002	SANKYO CO.		☐
	148	JP-2002513602-A	05-14-2002	HELLER E & CO.		☐
	149	JP-2003108679-A	04-11-2003	TOSHIBA CORP.		☐

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	151	JP-H022913-A	01-08-1990	BRIDGESTONE CORP.		☐
	152	JP-H03293556-A	12-25-1991	KOKURITSU SHINTAI SHIYOUGAISHI.		☐
	153	JP-H06288853-A	10-18-1994	TOSHIBA CORP.		☐
	154	JP-H06307898-A	11-04-1994	NIPPON STEEL CORP.		☐
	155	JP-H0783871-A	03-31-1995	MATSUSHITA ELECTRIC IND CO LTD.		☐
	156	JP-H11258381-A	09-24-1999	MITSUBISHI HEAVY IND LTD.		☐
	157	JP-S5441190-A	04-02-1979	OMRON TATEISI ELECTRONICS CO.		☐
	158	JP-S57156004-A	09-27-1982	NITTO ELECTRIC IND CO.		☐
	159	JP-S58124912-A	07-25-1983	MITSUBISHI HEAVY IND LTD.		☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	160	JP-S59211459-A	11-30-1984	TEIJIN LTD.		☐
	161	JP-S61271418-A	12-01-1986	FUJI ELECTRIC CO LTD., et al.		☐
	162	JP-S6283649-A	04-17-1987	MATSUSHITA ELECTRIC IND CO LTD.		☐
	163	JP-S6283849-A	04-17-1987	YOSHINAKA REIJI., et al.		☐
	164	WO-0007013-A2	02-10-2000	ABBOTT LAB [US]		☐
	165	WO-0012720-A2	03-09-2000	ABBOTT LAB [US]		☐
	166	WO-0013002-A2	03-09-2000	ABBOTT LAB [US]		☐
	167	WO-0013003-A1	03-09-2000	SENSORS FOR MED & SCIENCE INC [US]		☐
	168	WO-0018449-A2	04-06-2000	MINIMED INC [US]		☐
	169	WO-0019887-A1	04-13-2000	MINIMED INC [US]		☐

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	170	WO-0020626-A1	04-13-2000	THERASENSE INC [US]		☐
	171	WO-0030530-A1	06-02-2000	ABBOTT LAB [US]		☐
	172	WO-0032098-A1	06-08-2000	HEALTH HERO NETWORK INC [US]		☐
	173	WO-0033065-A1	06-08-2000	LOCKHEED MARTIN ENERGY RES COR [US], et al.		☐
	174	WO-0035530-A1	06-22-2000	MINIMED INC [US]		☐
	175	WO-0045696-A1	08-10-2000	MINIMED INC [US]		☐
	176	WO-0049940-A2	08-31-2000	MINIMED INC [US]		☐
	177	WO-0049941-A1	08-31-2000	MINIMED INC [US]		☐
	178	WO-0049942-A2	08-31-2000	MINIMED INC [US]		☐
	179	WO-0059370-A1	10-12-2000	UNIV CAMBRIDGE TECH [GB], et al.		☐

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Attorney Docket Number	DEXCOM.053C22

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	180	WO-0059373-A1	10-12-2000	SPECTRX INC [US], et al.		☐
	181	WO-0074753-A1	12-14-2000	MINIMED INC [US]		☐
	182	WO-0078210-A1	12-28-2000	MINIMED INC [US]		☐
	183	WO-0078992-A2	12-28-2000	THERASENSE INC [US]		☐
	184	WO-0079258-A1	12-28-2000	ABBOTT LAB [US], et al.		☐
	185	WO-0100865-A2	01-04-2001	DREW SCIENT LTD [GB], et al.		☐
	186	WO-0109096-A2	02-08-2001	ABBOTT LAB [US]		☐
	187	WO-0112158-A1	02-22-2001	UNIV JEFFERSON [US], et al.		☐
	188	WO-0116579-A1	03-08-2001	CME TELEMETRIX INC [CA], et al.		☐
	189	WO-0120019-A2	03-22-2001	IMPLANTED BIOSYSTEMS INC [US]		☐

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Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	190	WO-0120334-A1	03-22-2001	UNIV CALIFORNIA [US], et al.		☐
	191	WO-0121827-A1	03-29-2001	ROCHE DIAGNOSTICS CORP [US], et al.		☐
	192	WO-0134243-A1	05-17-2001	ST JUDE MEDICAL [SE], et al.		☐
	193	WO-0136666-A1	05-25-2001	I STAT CORP [US]		☐
	194	WO-0143660-A2	06-21-2001	BAXTER INT [US]		☐
	195	WO-0152727-A1	07-26-2001	MINIMED INC [US]		☐
	196	WO-0152935-A1	07-26-2001	MEDICAL RES GROUP INC [US]		☐
	197	WO-0154753-A2	08-02-2001	MEDICAL RES GROUP INC [US]		☐
	198	WO-0158347-A1	08-16-2001	MASIMO CORP [US]		☐
	199	WO-0158348-A2	08-16-2001	MINIMED INC [US]		☐

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Attorney Docket Number	DEXCOM.053C22

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	200	WO-0159425-A1	08-16-2001	I STAT CORP [US], et al.		☐
	201	WO-0164105-A1	09-07-2001	INVERNESS MEDICAL TECHNOLOGY I [US], et al.		☐
	202	WO-0168901-A2	09-20-2001	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	203	WO-0169222-A2	09-20-2001	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	204	WO-0173109-A2	10-04-2001	INVERNESS MEDICAL TECHNOLOGY I [US], et al.		☐
	205	WO-0188524-A1	11-22-2001	THERASENSE INC [US]		☐
	206	WO-0188534-A2	11-22-2001	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	207	WO-0191634-A2	12-06-2001	ABBOTT LAB [US]		☐
	208	WO-0202755-A2	01-10-2002	BAYER AG [DE], et al.		☐

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	209	WO-02056751-A2	07-25-2002	ROCHE DIAGNOSTICS CORP [US], et al.		☐
	210	WO-0205702-A2	01-24-2002	HEALTHETECH INC [US], et al.		☐
	211	WO-02058537-A2	08-01-2002	THERASENSE INC [US]		☐
	212	WO-02062210-A1	08-15-2002	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	213	WO-02066509-A2	08-29-2002	GENENTECH INC [US]		☐
	214	WO-02066986-A2	08-29-2002	MEDTRONIC MINIMED INC [US]		☐
	215	WO-02074161-A2	09-26-2002	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	216	WO-0207596-A1	01-31-2002	MEDTRONIC INC [US]		☐
	217	WO-0207617-A2	01-31-2002	VERIMETRA INC [US]		☐
	218	WO-02082989-A1	10-24-2002	ABBOTT LAB [US]		☐

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	219	WO-02087681-A2	11-07-2002	MEDTRONIC INC [US]		☐
	220	WO-02089666-A2	11-14-2002	ISENSE CORP [US], et al.		☐
	221	WO-02097414-A2	12-05-2002	INSTRUMENTATI ON LAB CO [US]		☐
	222	WO-02099097-A1	12-12-2002	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	223	WO-02099428-A1	12-12-2002	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	224	WO-02100266-A1	12-19-2002	MATHEWS EDWARD HENRY [ZA], et al.		☐
	225	WO-02100457-A2	12-19-2002	MEDTRONIC MINIMED INC [US]		☐
	226	WO-02100474-A2	12-19-2002	ABBOTT LAB [US]		☐
	227	WO-0216535-A2	02-28-2002	PROCTER & GAMBLE [US]		☐
	228	WO-0216905-A2	02-28-2002	EURO CELTIQUE SA [LU], et al.		☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	229	WO-0217780-A1	03-07-2002	NELLCOR PURITAN BENNETT INC [US]		☐
	230	WO-0224065-A1	03-28-2002	KNOBBE LIM & BUCKINGHAM [US]		☐
	231	WO-0233407-A1	04-25-2002	ABBOTT LAB [US]		☐
	232	WO-0243585-A1	06-06-2002	OPTISCAN BIOMEDICAL CORP [US]		☐
	233	WO-03000127-A2	01-03-2003	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	234	WO-03008013-A2	01-30-2003	MEDICAL RES GROUP [US], et al.		☐
	235	WO-03008014-A2	01-30-2003	MEDICAL RES GROUP [US], et al.		☐
	236	WO-03009207-A1	01-30-2003	MEDICAL RES GROUP [US], et al.		☐
	237	WO-03009208-A1	01-30-2003	MEDICAL RES GROUP [US], et al.		☐
	238	WO-03011131-A2	02-13-2003	DEXCOM INC [US], et al.		☐

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	239	WO-03012422-A1	02-13-2003	NOVA BIOMEDICAL CORP [US]		☐
	240	WO-03022327-A2	03-20-2003	MEDTRONIC MINIMED INC [US]		☐
	241	WO-03028797-A1	04-10-2003	HEWLETT PACKARD CO [US]		☐
	242	WO-03032411-A2	04-17-2003	LIFESCAN INC [US], et al.		☐
	243	WO-03033726-A1	04-24-2003	DREW SCIENT LTD [GB], et al.		☐
	244	WO-03035117-A1	05-01-2003	MEDTRONIC MINIMED INC [US]		☐
	245	WO-03036310-A1	05-01-2003	MEDTRONIC MINIMED INC [US]		☐
	246	WO-03044511-A2	05-30-2003	ROCHE DIAGNOSTIC CORP [US], et al.		☐
	247	WO-03053498-A2	07-03-2003	MEDTRONIC MINIMED INC [US]		☐
	248	WO-03057028-A2	07-17-2003	MEDTRONIC MINIMED INC [US]		☐

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	249	WO-03063700-A1	08-07-2003	SICEL TECHNOLOGIES INC [US], et al.		☐
	250	WO-03072164-A2	09-04-2003	SPECTRX INC [US], et al.		☐
	251	WO-03072269-A1	09-04-2003	SONO TEK CORP [US]		☐
	252	WO-03076893-A2	09-18-2003	SENSYS MEDICAL INC [US]		☐
	253	WO-03076937-A2	09-18-2003	I STAT CORP [US], et al.		☐
	254	WO-03082091-A2	10-09-2003	INVERNESS MEDICAL LTD [GB], et al.		☐
	255	WO-03085372-A2	10-16-2003	THERASENSE INC [US]		☐
	256	WO-03088832-A1	10-30-2003	MEDTRONIC INC [US]		☐
	257	WO-03094714-A1	11-20-2003	MEDTRONIC MINIMED INC [US]		☐
	258	WO-03097866-A1	11-27-2003	INFOPIA CO LTD [KR], et al.		☐

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Attorney Docket Number	DEXCOM.053C22

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	259	WO-03101862-A1	12-11-2003	DOW CORNING TORAY SILICONE [JP], et al.		☐
	260	WO-03106031-A1	12-24-2003	HOFFMANN LA ROCHE [CH], et al.		☐
	261	WO-03106966-A2	12-24-2003	THERASENSE INC [US]		☐
	262	WO-2004004905-A2	01-15-2004	ABBOTT LAB [US]		☐
	263	WO-2004010844-A2	02-05-2004	CAS MEDICAL SYSTEMS INC [US]		☐
	264	WO-2004030726-A1	04-15-2004	NOVO NORDISK AS [DK]		☐
	265	WO-2004036183-A2	04-29-2004	MEDTRONIC MINIMED INC [US]		☐
	266	WO-2004039265-A2	05-13-2004	MEDTRONIC INC [US]		☐
	267	WO-2004052190-A1	06-24-2004	KONINKL PHILIPS ELECTRONICS NV [NL], et al.		☐
	268	WO-2004060455-A1	07-22-2004	MEDTRONIC MINIMED INC [US]		☐

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Examiner Name	Unassigned
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	269	WO-2004061420-A2	07-22-2004	THERASENSE INC [US], et al.		☐
	270	WO-2004063718-A2	07-29-2004	ISENSE DEV CORP [US], et al.		☐
	271	WO-2004071291-A2	08-26-2004	MEDTRONIC INC [US], et al.		☐
	272	WO-2004073138-A1	08-26-2004	MEDTRONIC INC [US], et al.		☐
	273	WO-2004086970-A1	10-14-2004	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	274	WO-2004098685-A1	11-18-2004	NOVO NORDISK AS [DK], et al.		☐
	275	WO-2004105641-A2	12-09-2004	DEXCOM INC [US], et al.		☐
	276	WO-2004110256-A2	12-23-2004	THERASENSE INC [US]		☐
	277	WO-2004113901-A1	12-29-2004	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	278	WO-2005011489-A1	02-10-2005	DEXCOM INC [US], et al.		☐

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	280	WO-2005013824-A1	02-17-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	281	WO-2005018443-A1	03-03-2005	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	282	WO-2005026178-A2	03-24-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	283	WO-2005026689-A2	03-24-2005	I STAT CORP [US], et al.		☐
	284	WO-2005026689-A9	10-13-2005	I STAT CORP [US], et al.		☐
	285	WO-2005026690-A2	03-24-2005	I STAT CORP [US], et al.		☐
	286	WO-2005032362-A2	04-14-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	287	WO-2005032400-A2	04-14-2005	NICAST LTD [IL], et al.		☐
	288	WO-2005041766-A1	05-12-2005	THERASENSE INC [US], et al.		☐

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	289	WO-2005048834-A1	06-02-2005	MEDTRONIC MINIMED INC [US], et al.		☐
	290	WO-2005051440-A1	06-09-2005	KIM TCAK-YOUNG [KR]		☐
	291	WO-2005057168-A2	06-23-2005	DEXCOM INC [US], et al.		☐
	292	WO-2005057173-A2	06-23-2005	DEXCOM INC [US], et al.		☐
	293	WO-2005057175-A2	06-23-2005	DEXCOM INC [US], et al.		☐
	294	WO-2005063115-A1	07-14-2005	HADVARY PAUL [CH], et al.		☐
	295	WO-2005065542-A2	07-21-2005	MEDTRONIC MINIMED INC [US], et al.		☐
	296	WO-2005067797-A1	07-28-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	297	WO-2005070287-A1	08-04-2005	DISETRONIC LICENSING AG [CH], et al.		☐
	298	WO-2005074811-A1	08-18-2005	ABBOTT LAB [US], et al.		☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	299	WO-2005078424-A1	08-25-2005	THERASENSE INC [US], et al.		☐
	300	WO-2005084530-A2	09-15-2005	HOFFMANN LA ROCHE [CH], et al.		☐
	301	WO-2005084545-A1	09-15-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	302	WO-2005084546-A2	09-15-2005	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	303	WO-2005089103-A2	09-29-2005	THERASENSE INC [US]		☐
	304	WO-2005094714-A1	10-13-2005	3M ESPE AG [DE], et al.		☐
	305	WO-2005098431-A1	10-20-2005	EGOMEDICAL SWISS AG [CH], et al.		☐
	306	WO-2005107594-A2	11-17-2005	ABBOTT LAB [US], et al.		☐
	307	WO-2005114218-A2	12-01-2005	GENENTECH INC [US], et al.		☐
	308	WO-2005119238-A1	12-15-2005	LEE JIN PO [US]		☐

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Attorney Docket Number	DEXCOM.053C22

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	309	WO-2005121355-A1	12-22-2005	MEDTRONIC MINIMED INC [US], et al.		☐
	310	WO-2005121785-A2	12-22-2005	MEDTRONIC MINIMED INC [US], et al.		☐
	311	WO-2005122296-A2	12-22-2005	UNIV SURREY [GB], et al.		☐
	312	WO-2006001929-A1	01-05-2006	MEDTRONIC MINIMED INC [US]		☐
	313	WO-2006001973-A2	01-05-2006	ABBOTT LAB [US], et al.		☐
	314	WO-2006002960-A1	01-12-2006	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	315	WO-2006005503-A1	01-19-2006	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	316	WO-2006010533-A2	02-02-2006	HOFFMANN LA ROCHE [CH], et al.		☐
	317	WO-2006015922-A1	02-16-2006	NOVO NORDISK AS [DK], et al.		☐
	318	WO-2006017358-A1	02-16-2006	DEXCOM INC [US], et al.		☐

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	319	WO-2006018425-A2	02-23-2006	NOVO NORDISK AS [DK], et al.		☐
	320	WO-2006019665-A1	02-23-2006	ABBOTT LAB [US], et al.		☐
	321	WO-2006021430-A2	03-02-2006	DISETRONIC LICENSING AG [CH], et al.		☐
	322	WO-2006023241-A9	10-23-2008	ABBOTT LAB [US], et al.		☐
	323	WO-2006024671-A1	03-09-2006	NOVO NORDISK AS [DK], et al.		☐
	324	WO-2006029293-A1	03-16-2006	MEDTRONIC MINIMED INC [US], et al.		☐
	325	WO-2006050405-A1	05-11-2006	MEDTRONIC INC [US], et al.		☐
	326	WO-2006050843-A1	05-18-2006	HOFFMANN LA ROCHE [CH], et al.		☐
	327	WO-2006060806-A2	06-08-2006	MEDTRONIC INC [US], et al.		☐
	328	WO-2006071770-A2	07-06-2006	I STAT CORP [US], et al.		☐

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	329	WO-2006072089-A1	07-06-2006	ABBOTT LAB [US], et al.		☐
	330	WO-2006076412-A1	07-20-2006	MEDTRONIC MINIMED INC [US], et al.		☐
	331	WO-2006079114-A2	07-27-2006	ABBOTT DIABETES CARE INC [US]		☐
	332	WO-2006088576-A2	08-24-2006	MEDTRONIC MINIMED INC [US], et al.		☐
	333	WO-2006098887-A2	09-21-2006	GENENTECH INC [US], et al.		☐
	334	WO-2006099151-A2	09-21-2006	DEXCOM INC [US], et al.		☐
	335	WO-2006102359-A2	09-28-2006	ABBOTT LAB [US], et al.		☐
	336	WO-2006102412-A2	09-28-2006	ABBOTT DIABETES CARE INC [US]		☐
	337	WO-2006104843-A1	10-05-2006	MEDTRONIC INC [US], et al.		☐
	338	WO-2006105146-A2	10-05-2006	ARKAL MEDICAL INC [US], et al.		☐

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	340	WO-2006118713-A1	11-09-2006	MEDTRONIC INC [US], et al.		☐
	341	WO-2006118947-A2	11-09-2006	ABBOTT DIABETES CARE INC [US]		☐
	342	WO-2006122048-A1	11-16-2006	MEDTRONIC MINIMED INC [US]		☐
	343	WO-2006122553-A1	11-23-2006	RADIOMETER MEDICAL APS [DK]		☐
	344	WO-2006124759-A2	11-23-2006	ISENSE CORP [US], et al.		☐
	345	WO-2006130268-A1	12-07-2006	MEDTRONIC INC [US], et al.		☐
	346	WO-2006131288-A1	12-14-2006	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	347	WO-2006132884-A2	12-14-2006	ABBOTT DIABETES CARE INC [US]		☐
	348	WO-2006133171-A2	12-14-2006	ABBOTT LAB [US], et al.		☐

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	349	WO-2007002209-A2	01-04-2007	GLUCON INC [US], et al.		☐
	350	WO-2007002579-A2	01-04-2007	BIOVERIS CORP [US], et al.		☐
	351	WO-2007005170-A2	01-11-2007	MEDTRONIC MINIMED INC [US]		☐
	352	WO-2007006454-A1	01-18-2007	HOFFMANN LA ROCHE [CH], et al.		☐
	353	WO-2007009911-A1	01-25-2007	HOFFMANN LA ROCHE [CH], et al.		☐
	354	WO-2007011587-A2	01-25-2007	I STAT CORP [US], et al.		☐
	355	WO-2007016399-A2	02-08-2007	ABBOTT DIABETES CARE INC [US]		☐
	356	WO-2007021892-A1	02-22-2007	MEDTRONIC MINIMED INC [US]		☐
	357	WO-2007021894-A2	02-22-2007	MEDTRONIC MINIMED INC [US]		☐
	358	WO-2007025088-A2	03-01-2007	MEDTRONIC MINIMED INC [US]		☐

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	362	WO-2007033010-A1	03-22-2007	MEDTRONIC MINIMED INC [US]		☐
	363	WO-2007037970-A1	04-05-2007	MEDTRONIC MINIMED INC [US]		☐
	364	WO-2007037989-A2	04-05-2007	MEDTRONIC MINIMED INC [US]		☐
	365	WO-2007040559-A2	04-12-2007	BIOVERIS [US], et al.		☐
	366	WO-2007041069-A2	04-12-2007	ABBOTT DIABETES CARE INC [US]		☐
	367	WO-2007041070-A2	04-12-2007	ABBOTT DIABETES CARE INC [US]		☐
	368	WO-2007041072-A2	04-12-2007	ABBOTT DIABETES CARE INC [US]		☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

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	369	WO-2007041248-A2	04-12-2007	ABBOTT DIABETES CARE INC [US]		☐
	370	WO-2007053832-A2	05-10-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	371	WO-2007053832-A3	12-06-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	372	WO-2007056638-A2	05-18-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	373	WO-2007058921-A2	05-24-2007	ISENSE CORP [US], et al.		☐
	374	WO-2007059476-A2	05-24-2007	LUMINOUS MEDICAL INC [US], et al.		☐
	375	WO-2007059478-A1	05-24-2007	NIKE INT [US], et al.		☐
	376	WO-2007061992-A2	05-31-2007	ISENSE CORP [US], et al.		☐
	377	WO-2007065285-A2	06-14-2007	HOFFMANN LA ROCHE [CH], et al.		☐
	378	WO-2007070486-A2	06-21-2007	MEDTRONIC MINIMED INC [US], et al.		☐

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	379	WO-2007076303-A1	07-05-2007	MEDTRONIC INC [US], et al.		☐
	380	WO-2007079015-A2	07-12-2007	MEDTRONIC MINIMED INC [US]		☐
	381	WO-2007079025-A2	07-12-2007	MEDTRONIC MINIMED INC [US]		☐
	382	WO-2007081811-A2	07-19-2007	UNIV PENNSYLVANIA [US], et al.		☐
	383	WO-2007090037-A2	08-09-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	384	WO-2007097754-A1	08-30-2007	DEXCOM INC [US], et al.		☐
	385	WO-2007101223-A2	09-07-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	386	WO-2007101260-A2	09-07-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	387	WO-2007109372-A2	09-27-2007	ABBOTT CARDIOVASCULAR SYSTEMS [US], et al.		☐

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	388	WO-2007111885-A2	10-04-2007	ABBOTT CARDIOVASCULAR SYSTEMS [US], et al.		☐
	389	WO-2007112006-A2	10-04-2007	ABBOTT CARDIOVASCULAR SYSTEMS [US], et al.		☐
	390	WO-2007114943-A2	10-11-2007	MEDTRONIC MINIMED INC [US], et al.		☐
	391	WO-2007115094-A2	10-11-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	392	WO-2007120363-A2	10-25-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	393	WO-2007120552-A2	10-25-2007	BAYER HEALTHCARE LLC [US], et al.		☐
	394	WO-2007126444-A2	11-08-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	395	WO-2007127606-A1	11-08-2007	MEDTRONIC INC [US], et al.		☐
	396	WO-2007127622-A2	11-08-2007	MEDTRONIC INC [US], et al.		☐

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Attorney Docket Number	DEXCOM.053C22

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	397	WO-2007127879-A2	11-08-2007	MEDTRONIC MINIMED INC [US], et al.		☐
	398	WO-2007127880-A2	11-08-2007	MEDTRONIC MINIMED INC [US], et al.		☐
	399	WO-2007130239-A1	11-15-2007	MEDTRONIC INC [US], et al.		☐
	400	WO-2007137286-A2	11-29-2007	GLUCON INC [US], et al.		☐
	401	WO-2007143225-A2	12-13-2007	ABBOTT DIABETES CARE INC [US], et al.		☐
	402	WO-2008001091-A1	01-03-2008	GLYSURE LTD [GB], et al.		☐
	403	WO-2008003003-A2	01-03-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	404	WO-2008005780-A2	01-10-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	405	WO-2008013849-A2	01-31-2008	MEDTRONIC MINIMED INC [US], et al.		☐
	406	WO-2008016486-A2	02-07-2008	MEDTRONIC MINIMED INC [US]		☐

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Examiner Name	Unassigned
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	407	WO-2008021913-A2	02-21-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	408	WO-2008022021-A2	02-21-2008	MEDTRONIC INC [US], et al.		☐
	409	WO-2008028644-A1	03-13-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	410	WO-2008031106-A2	03-13-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	411	WO-2008031110-A2	03-13-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	412	WO-2008037485-A1	04-03-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	413	WO-2008039944-A2	04-03-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	414	WO-2008039946-A2	04-03-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	415	WO-2008039949-A2	04-03-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	416	WO-2008042760-A2	04-10-2008	ABBOTT DIABETES CARE INC [US], et al.		☐

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	418	WO-2008051407-A2	05-02-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	419	WO-2008051924-A2	05-02-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	420	WO-2008052199-A2	05-02-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	421	WO-2008055037-A2	05-08-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	422	WO-2008055128-A1	05-08-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	423	WO-2008055199-A1	05-08-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	424	WO-2008067314-A2	06-05-2008	MEDTRONIC MINIMED INC [US], et al.		☐
	425	WO-2008069931-A1	06-12-2008	MEDTRONIC MINIMED INC [US]		☐
	426	WO-2008069932-A1	06-12-2008	MEDTRONIC MINIMED INC [US]		☐

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	428	WO-2008076868-A2	06-26-2008	ABBOTT LAB [US], et al.		☐
	429	WO-2008079616-A1	07-03-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	430	WO-2008080591-A1	07-10-2008	DISETRONIC LICENSING AG [CH], et al.		☐
	431	WO-2008083379-A1	07-10-2008	ISENSE CORP [US], et al.		☐
	432	WO-2008088490-A1	07-24-2008	MEDTRONIC MINIMED INC [US]		☐
	433	WO-2008094249-A1	08-07-2008	MEDTRONIC MINIMED INC [US]		☐
	434	WO-2008101211-A2	08-21-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	435	WO-2008101217-A2	08-21-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	436	WO-2008103620-A2	08-28-2008	ABBOTT DIABETES CARE INC [US], et al.		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	437	WO-2008116329-A1	10-02-2008	HOFFMANN LA ROCHE [CH], et al.		☐
	438	WO-2008118257-A1	10-02-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	439	WO-2008119470-A1	10-09-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	440	WO-2008124597-A1	10-16-2008	ISENSE CORP., et al.		☐
	441	WO-2008134441-A1	11-06-2008	ISENSE CORP [US], et al.		☐
	442	WO-2008135453-A1	11-13-2008	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	443	WO-2008137405-A1	11-13-2008	HOFFMANN LA ROCHE [CH], et al.		☐
	444	WO-2008138006-A2	11-13-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	445	WO-2008150280-A1	12-11-2008	ABBOTT DIABETES CARE INC [US], et al.		☐
	446	WO-2008150917-A1	12-11-2008	ABBOTT DIABETES CARE INC [US], et al.		☐

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	447	WO-2008150946-A1	12-11-2008	ABBOTT LAB [US], et al.		☐
	448	WO-2008150949-A1	12-11-2008	ABBOTT LAB [US], et al.		☐
	449	WO-2009006139-A2	01-08-2009	ELECTROLUX HOME PROD INC [US], et al.		☐
	450	WO-2009105709-A1	08-27-2009	DEXCOM INC [US], et al.		☐
	451	WO-8103614-A1	12-24-1981	AMERICAN HOSPITAL SUPPLY CORP [US]		☐
	452	WO-8706342-A1	10-22-1987	MARKWELL MEDICAL INST INC [US]		☐
	453	WO-8706706-A1	11-05-1987	IGEN INC [US]		☐
	454	WO-8808137-A1	10-20-1988	UNIV SOUTHERN AUSTRALIA [AU], et al.		☐
	455	WO-8902720-A1	04-06-1989	GRONINGEN SCIENCE PARK [NL]		☐
	456	WO-8904302-A1	05-18-1989	IGEN INC [US]		☐

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	457	WO-8907263-A1	08-10-1989	I STAT CORP [US]		☐
	458	WO-9000738-A1	01-25-1990	MARKWELL MEDICAL INST INC [US]		☐
	459	WO-9002938-A1	03-22-1990	I STAT CORP [US]		☐
	460	WO-9005296-A1	05-17-1990	IGEN INC [US]		☐
	461	WO-9005301-A1	05-17-1990	IGEN INC [US]		☐
	462	WO-9005302-A1	05-17-1990	IGEN INC [US]		☐
	463	WO-9005910-A1	05-31-1990	I STAT CORP [US]		☐
	464	WO-9007525-A1	07-12-1990	UNIV CALIFORNIA [US]		☐
	465	WO-9007575-A1	07-12-1990	ANDERSON DAVID M [US]		☐
	466	WO-9010716-A1	09-20-1990	GENE TRAK SYSTEMS [US]		☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	467	WO-9010861-A1	09-20-1990	NOVO NORDISK AS [DK]		☐
	468	WO-9013021-A1	11-01-1990	NAT RES DEV [GB]		☐
	469	WO-9109302-A1	06-27-1991	UNIV CALIFORNIA [US]		☐
	470	WO-9115993-A1	10-31-1991	UNIV KANSAS [US], et al.		☐
	471	WO-9116416-A1	10-31-1991	MARKWELL MEDICAL INST INC [US]		☐
	472	WO-9117259-A1	11-14-1991	SECR DEFENCE BRIT [GB]		☐
	473	WO-9201315-A1	01-23-1992	BOEHRINGER MANNHEIM CORP [US]		☐
	474	WO-9201928-A1	02-06-1992	I STAT CORP [US]		☐
	475	WO-9207525-A1	05-14-1992	BAXTER INT [US]		☐
	476	WO-9208985-A2	05-29-1992	GENENTECH INC [US]		☐

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Sheet 169 of 274

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	477	WO-9210584-A1	06-25-1992	TNO [NL]		☐
	478	WO-9212255-A1	07-23-1992	ABBOTT LAB [US]		☐
	479	WO-9213271-A1	08-06-1992	MARKWELL MEDICAL INST INC [US]		☐
	480	WO-9214138-A1	08-20-1992	IGEN INC [US], et al.		☐
	481	WO-9214139-A1	08-20-1992	IGEN INC [US]		☐
	482	WO-9218887-A1	10-29-1992	ABBOTT LAB [US]		☐
	483	WO-9221772-A1	12-10-1992	ABBOTT LAB [US]		☐
	484	WO-9301308-A1	01-21-1993	IGEN INC [US]		☐
	485	WO-9302703-A1	02-18-1993	IGEN INC [US]		☐
	486	WO-9303362-A1	02-18-1993	ABBOTT LAB [US]		☐

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	488	WO-9312256-A1	06-24-1993	IGEN INC [US]		☐
	489	WO-9313048-A1	07-08-1993	ABBOTT LAB [US]		☐
	490	WO-9313408-A1	07-08-1993	ABBOTT LAB [US]		☐
	491	WO-9314185-A1	07-22-1993	ANDCARE INC [US]		☐
	492	WO-9314693-A1	08-05-1993	UNIV MANCHESTER [GB]		☐
	493	WO-9319370-A1	09-30-1993	ABBOTT LAB [US]		☐
	494	WO-9319701-A1	10-14-1993	BAXTER INT [US]		☐
	495	WO-9320240-A1	10-14-1993	ABBOTT LAB [US]		☐
	496	WO-9320440-A1	10-14-1993	ABBOTT LAB [US]		☐

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	498	WO-9320443-A1	10-14-1993	ABBOTT LAB [US]		☐
	499	WO-9320444-A1	10-14-1993	ABBOTT LAB [US]		☐
	500	WO-9320450-A1	10-14-1993	ABBOTT LAB [US]		☐
	501	WO-9323744-A1	11-25-1993	HELLER E & CO [US]		☐
	502	WO-9406011-A1	03-17-1994	BOEHRINGER MANNHEIM CORP [US]		☐
	503	WO-9406012-A1	03-17-1994	BOEHRINGER MANNHEIM CORP [US]		☐
	504	WO-9408236-A1	04-14-1994	ECOSSENSORS LTD [GB], et al.		☐
	505	WO-9409506-A1	04-28-1994	ABBOTT LAB [US]		☐
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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	507	WO-9419695-A1	09-01-1994	ABBOTT LAB [US]		☐
	508	WO-9421642-A1	09-29-1994	ABBOTT LAB [US]		☐
	509	WO-9421643-A1	09-29-1994	ABBOTT LAB [US]		☐
	510	WO-9421644-A1	09-29-1994	ABBOTT LAB [US]		☐
	511	WO-9422367-A1	10-13-1994	PFIZER INC. [US], et al.		☐
	512	WO-9426414-A1	11-24-1994	SYNTEX INC [US]		☐
	513	WO-9502357-A1	01-26-1995	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	514	WO-9507109-A1	03-16-1995	OTTAWA HEART INST RESEARCH COR [CA]		☐
	515	WO-9508774-A2	03-30-1995	ABBOTT LAB [US]		☐
	516	WO-9510044-A1	04-13-1995	I STAT CORP [US]		☐

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	517	WO-9511454-A1	04-27-1995	ABBOTT LAB [US]		☐
	518	WO-9513838-A1	05-26-1995	ELAN MED TECH [IE], et al.		☐
	519	WO-9517966-A1	07-06-1995	ABBOTT LAB [US]		☐
	520	WO-9522597-A1	08-24-1995	BOEHRINGER MANNHEIM CORP [US]		☐
	521	WO-9528878-A1	11-02-1995	MINIMED INC [US]		☐
	522	WO-9534814-A1	12-21-1995	ABBOTT LAB [US]		☐
	523	WO-9601611-A1	01-25-1996	BAXTER INT [US]		☐
	524	WO-9603117-A1	02-08-1996	UNIV PENNSYLVANIA [US]		☐
	525	WO-9605501-A1	02-22-1996	IGEN INC [US]		☐
	526	WO-9606947-A1	03-07-1996	HELLER ADAM [US], et al.		☐

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	527	WO-9614026-A1	05-17-1996	ELAN MED TECH [IE], et al.		☐
	528	WO-9622991-A1	08-01-1996	ABBOTT LAB [US]		☐
	529	WO-9622992-A1	08-01-1996	ABBOTT LAB [US]		☐
	530	WO-9624690-A1	08-15-1996	IGEN INC [US]		☐
	531	WO-9625088-A1	08-22-1996	MINIMED INC [US]		☐
	532	WO-9625089-A1	08-22-1996	MINIMED INC [US]		☐
	533	WO-9630431-A1	10-03-1996	MINIMED INC [US]		☐
	534	WO-9632076-A1	10-17-1996	BAXTER INTERNATONAL INC [US]		☐
	535	WO-9635370-A1	11-14-1996	MASSACHUSETTS INST TECHNOLOGY [US]		☐
	536	WO-9636296-A1	11-21-1996	BAXTER INT [US]		☐

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	537	WO-9636870-A1	11-21-1996	IGEN INC [US]		☐
	538	WO-9641179-A1	12-19-1996	ABBOTT LAB [US]		☐
	539	WO-9701986-A1	01-23-1997	UNIV JEFFERSON [US], et al.		☐
	540	WO-9702811-A1	01-30-1997	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	541	WO-9706727-A1	02-27-1997	CARDIAC CRC NOMINEES PTY LTD [AU], et al.		☐
	542	WO-9711080-A1	03-27-1997	ABBOTT LAB [US]		☐
	543	WO-9713874-A1	04-17-1997	BOEHRINGER MANNHEIM GMBH [DE], et al.		☐
	544	WO-9717884-A2	05-22-1997	NELLCOR PURITAN BENNETT INC [US]		☐
	545	WO-9719188-A1	05-29-1997	MINIMED INC [US], et al.		☐

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Attorney Docket Number	DEXCOM.053C22

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	546	WO-9719344-A1	05-29-1997	LEGACY GOOD SAMARITAN HOSPITAL [US], et al.		☐
	547	WO-9728737-A1	08-14-1997	NOKIA MOBILE PHONES LTD [FI], et al.		☐
	548	WO-9730628-A1	08-28-1997	ABBOTT LAB [US]		☐
	549	WO-9733176-A1	09-12-1997	IGEN INC [US]		☐
	550	WO-9738625-A1	10-23-1997	UNIV MASSACHUSETTS [US], et al.		☐
	551	WO-9743633-A1	11-20-1997	ENCELLE INC [US], et al.		☐
	552	WO-9801071-A1	01-15-1998	ANIMAS CORP [US], et al.		☐
	553	WO-9804902-A1	02-05-1998	OREGON STATE [US], et al.		☐
	554	WO-9806423-A1	02-19-1998	GENENTECH INC [US]		☐
	555	WO-9819159-A1	05-07-1998	MERCURY DIAGNOSTICS INC [US], et al.		☐

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	556	WO-9824358-A2	06-11-1998	ENACT HEALTH MANAGEMENT SYSTEM [US], et al.		☐
	557	WO-9824366-A2	06-11-1998	ABBOTT LAB [US], et al.		☐
	558	WO-9833549-A1	08-06-1998	MINIMED INC [US]		☐
	559	WO-9834541-A1	08-13-1998	ABBOTT LAB [US]		☐
	560	WO-9835053-A2	08-13-1998	HELLER E & CO [US], et al.		☐
	561	WO-9838904-A1	09-11-1998	OPTEL INSTR LIMITED [GB], et al.		☐
	562	WO-9838906-A1	09-11-1998	MARKWELL MEDICAL INST INC [US], et al.		☐
	563	WO-9841854-A1	09-24-1998	VISIBLE GENETICS INC [CA], et al.		☐
	564	WO-9842249-A1	10-01-1998	NELLCOR PURITAN BENNETT INC [US]		☐

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	566	WO-9844348-A1	10-08-1998	PERKIN ELMER CORP [US], et al.		☐
	567	WO-9845331-A2	10-15-1998	GENENTECH INC [US], et al.		☐
	568	WO-9845427-A2	10-15-1998	GENENTECH INC [US]		☐
	569	WO-9852043-A1	11-19-1998	ABBOTT LAB [US]		☐
	570	WO-9856293-A1	12-17-1998	MINIMED INC [US]		☐
	571	WO-9856923-A1	12-17-1998	UNIV NORTH CAROLINA STATE [US], et al.		☐
	572	WO-9858250-A2	12-23-1998	ELAN CORP PLC [IE]		☐
	573	WO-9904043-A1	01-28-1999	ABBOTT LAB [US]		☐
	574	WO-9912607-A1	03-18-1999	MANN ALFRED E FOUND SCIENT RES [US]		☐

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	576	WO-9913574-A1	03-18-1999	MANN ALFRED E FOUND SCIENT RES [US]		☐
	577	WO-9927848-A1	06-10-1999	ABBOTT LAB [US]		☐
	578	WO-9927852-A1	06-10-1999	ABBOTT LAB [US]		☐
	579	WO-9929230-A1	06-17-1999	HELLER E & CO [US], et al.		☐
	580	WO-9929429-A1	06-17-1999	ROCHE DIAGNOSTICS GMBH [DE], et al.		☐
	581	WO-9929892-A1	06-17-1999	PERKIN ELMER CORP [US], et al.		☐
	582	WO-9933504-A1	07-08-1999	MINIMED INC [US]		☐
	583	WO-9940848-A1	08-19-1999	ABBOTT LAB [US]		☐
	584	WO-9948419-A1	09-30-1999	EGLISE DAVID [GB]		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet | 180 | of | 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	585	WO-9949856-A2	10-07-1999	GENENTECH INC [US], et al.		☐
	586	WO-9956613-A1	11-11-1999	HELLER E & CO [US], et al.		☐
	587	WO-9958051-A1	11-18-1999	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	588	WO-9958709-A1	11-18-1999	ABBOTT LAB [US], et al.		☐
	589	WO-9958973-A1	11-18-1999	CYGNUS THERAPEUTIC SYSTEMS [US]		☐
	590	WO-9959657-A1	11-25-1999	NOVO NORDISK AS [DK]		☐
	591	WO-9964620-A2	12-16-1999	ABBOTT LAB [US]		☐

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	001	AALDERS, et al., "Development of a Wearable Glucose Sensor; Studies in Healthy Volunteers and in Diabetic Patients," The International Journal Of Artificial Organs, 1991, Vol. 14, No. 2, pp. 102-108.	☐
	002	ABE, et al., "Characterization of Glucose Microsensors for Intracellular Measurements," Analytical Chemistry, 1992, Vol. 64, No. 18, pp. 2160-2163.	☐
	003	ABEL, et al., "Biosensors For in Vivo Glucose Measurements: Can We Cross the Experimental Stage," Biosensors & Bioelectronics, 2002, Vol. 17, pp. 1059-1070.	☐
	004	ABEL, et al., "Experience With An Implantable Glucose Sensor as a Prerequisite of an Artificial Beta Cell," Biomed. Biochim. Actan, 1984, Vol. 43, No. 5, pp. 577-584.	☐
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	007	ALCOCK S.J., et al., "Continuous Analyte Monitoring To Aid Clinical Practice," IEEE Engineering in Medicine & Biology, 1994, Vol. 13, pp. 319-325.	☐
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	010	AMIN, et al., "Hypoglycemia Prevalence in Prepubertal Children With Type 1 Diabetes On Standard Insulin Regimen: Use Of Continuous Glucose Monitoring System," Diabetes Care, 2003, Vol. 26, No. 3, pp. 662-667.	☐
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	017	ATANASOV P., et al., "Implantation of a Refillable Glucose Monitoring-Telemetry Device," Biosenors and Bioelectronics, Vol. 12 (7), 1997, pp. 669-680.	☐
	018	AUSSEDAT B., et al., "A User-Friendly Method For Calibrating a Subcutaneous Glucose Sensor-Based Hypoglycaemic Alarm," Elsevier Science Limited, Biosensors & Bioelectronic, 1997, Vol. 12, No. 11, pp. 1061-1071.	☐

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	019	BAILEY T.S., et al., "Reduction in Hemoglobin A1C with Real-Time Continuous Glucose Monitoring: Results from a 12-Week Observational Study," Diabetes Technology & Therapeutics, Vol. 9 (3), 2007, pp. 203-210.	☐
	020	BAKER D.A., et al., "Dynamic Concentration Challenges for Biosensor Characterization," Biosensors & Bioelectronics, Vol. 8, 1993, pp. 433-441.	☐
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	028	BERGVELD, et al., "Fabrication and Mass Production," Advances in Biosensors, Supplement 1, Chapter 6, 1993, pp. 165-186.	☐
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	037	BLANK T.B., et al., "Clinical Results From a Non-Invasive Blood Glucose Monitor," Optical Diagnostics and Sensing of Biological Fluids and Glucose and Cholesterol Monitoring II, Proceedings of SPIE, Vol. 4624, 2002, pp. 1-10.	☐
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	051	BRAUKER J., et al., "Local Inflammatory Response Around Diffusion Chambers Containing Xenografts," Transplantation, Vol. 61 (12), June 27, 1996, pp. 1671-1677.	☐
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	053	BRAUNWALD E., "Biomarkers in Heart Failure," Medical Progress, The New England Journal of Medicine, Vol. 358, May 15, 2008, pp. 2148-2159.	☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	054	BREMER T., et al., "Is Blood Glucose Predictable from Previous Values? A Solicitation for Data," Perspectives in Diabetes, Vol. 48, March 1999, pp. 445-451.	☐
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	063	CANDAS B., et al., "An Adaptive Plasma Glucose Controller Based on a Nonlinear Insulin/Glucose Model," IEEE Transactions on Biomedical Engineering, Vol. 41 (2), February 1994, pp. 116-124.	☐
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	072	CHOLEAU C., et al., "Calibration of a Subcutaneous Amperometric Glucose Sensor Part 1. Effect of Measurement Uncertainties on the Determination of Sensor Sensitivity and Background Current," Biosensors and Bioelectronics, Vol. 17, 2002, pp. 641-646.	☐
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	081	COLANGELO V.J., et al., "Corrosion Rate Measurements in Vivo," Journal of Biomedical Materials Research, Vol. 1, 1967, pp. 405-414.	☐
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	090	CURRIE J.F., et al., "Novel Non-Intrusive Trans-Dermal Remote Wireless Micro-Fluidic Monitoring System Applied to Continuous Glucose and Lactate Assays for Casualty Care and Combat Readiness Assessment," RTO HFM Symposium, RTO-MP-HFM-109, August 16-18, 2004, pp. 24-1 - 24-18.	☐
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	097	DAVIS G., et al., "Bioelectrochemical Fuel Cell and Sensor Based on a Quinoprotein, Alcohol Dehydrogenase," Enzyme and Microbial Technology, Vol. 5 (5), September 1983, pp. 383-388.	☐
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	099	Declaration presented during Opposition proceedings EP2407094, SCHOONMAKER R., December 14, 2015, 10 pages.	☐
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	112	ERNST H., et al., "Reliable Glucose Monitoring Through the Use of Microsystem Technology," Analytical Bioanalytical Chemistry, Vol. 373, 2002, pp. 758-761.	☐
	113	European Electronic File History for EP Application No. 10195447.7, filed July 13, 2005 - withdrawn, Atty. Docket: DEXCOM.051EPD3, 200 pages.	☐
	114	European Electronic File History for EP Application No. 10195504.5, filed July 13, 2005 - withdrawn, Atty. Docket: DEXCOM.051EPD7, 186 pages.	☐
	115	European Electronic File History for EP Application No. 11182615.2, filed February 22, 2006, Atty. Docket No. DEXCOM.077VEPD1, 344 pages.	☐
	116	European Electronic File History for EP Application No. 11182630.1, filed September 23, 2011, Atty. Docket No. DEXCOM.077VEPD3, 336 pages.	☐
	117	European Electronic File History for EP Application No. 14184330.0, filed September 10, 2014, Atty. Docket No. DEXCOM.077EPD4, 377 pages.	☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

NON-PATENT LITERATURE DOCUMENTS

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	118	European Electronic File History for EP Application No. 17198022.0, filed October 24, 2017, Atty. Docket No. DEXCOM.053EPD3, 339 pages.	☐
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	120	European Electronic File History for EP Patent No. 1804650 (05771643.3) granted March 14, 2012, Atty. Docket: DEXCOM.051VEP, 3733 pages.	☐
	121	European Electronic File History for EP Patent No. 1855588 (06748336.2), granted November 21, 2007, Atty. Docket No. DEXCOM.053VEP, 862 pages.	☐
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	123	European Electronic File History for EP Patent No. 2322094 (10195496.4) granted March 5, 2014, Atty. Docket No. DEXCOM.051EPD1, 1778 pages.	☐
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	125	European Electronic File History for EP Patent No. 2327984 (10195521.9) granted February 25, 2015, Atty. Docket No. DEXCOM.051EPD9, 394 pages.	☐
	126	European Electronic File History for EP Patent No. 2329770 (10195509.4) granted September 10, 2014, Atty. Docket No. DEXCOM.051EPD12, 1274 pages.	☐
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	131	European Electronic File History for EP Patent No. 2335585 (10195508.6) granted September 7, 2016, Atty. Docket No. DEXCOM.051EPD11, 722 pages.	☐
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	138	European Electronic File History for EP Patent No. 2532305 (12171365.5) granted August 13, 2014, Atty. Docket No. DEXCOM.051EPD2, 504 pages.	☐
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	147	FABIETTI P.G., et al., "Clinical Validation of a New Control-Oriented Model of Insulin and Glucose Dynamics in Subjects with Type 1 Diabetes," Diabetes Technology & Therapeutics, Vol. 9 (4), 2007, pp. 327-338.	☐

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	148	FAHY B.G., et al., "An Analysis: Hyperglycemic Intensive Care Patients Need Continuous Glucose Monitoring-Easier Said Than Done," Journal of Diabetes Science and Technology, Diabetes Technology Society, Vol. 2 (2), March 2008, pp. 201-204.	☐
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	156	File History of U.S. Patent Application No. 09/447,227, filed on November 22, 1999, 1184 pages (see image file wrapper - Atty. Docket No. DEXCOM.008DV1).	☐

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	181	File History of U.S. Patent Application No. 10/897,377, filed on July 21, 2004, 178 pages (see image file wrapper - Atty. Docket No. DEXCOM.022A).	☐
	182	File History of U.S. Patent Application No. 11/039,269, filed on January 19, 2005, 209 pages (see image file wrapper - Atty. Docket No. DEXCOM.8DVCP2C).	☐
	183	File History of U.S. Patent Application No. 11/077,643, filed on March 10, 2005, 253 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A8).	☐
	184	File History of U.S. Patent Application No. 11/077,693 filed on March. 10, 2005, 755 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A5).	☐
	185	File History of U.S. Patent Application No. 11/077,713, filed on March. 10, 2005, 1025 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A4).	☐
	186	File History of U.S. Patent Application No. 11/077,714, filed on March 10, 2005, 320 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6).	☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	187	File History of U.S. Patent Application No. 11/077,715, filed on March 10, 2005, 717 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A).	☐
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	195	File History of U.S. Patent Application No. 11/078,232, filed on March 10, 2005, 256 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A3).	☐
	196	File History of U.S. Patent Application No. 11/157,365, filed on June 21, 2005, 977 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A1).	☐

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	197	File History of U.S. Patent Application No. 11/157,746, filed on June 21, 2005, 603 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A).	☐
	198	File History of U.S. Patent Application No. 11/158,227, filed on July. 21, 2004, 474 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A2).	☐
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	202	File History of U.S. Patent Application No. 11/333,837, filed on January 17, 2006, 672 pages (see image file wrapper - Atty. Docket No. DEXCOM.063A).	☐
	203	File History of U.S. Patent Application No. 11/334,107, filed on January 17, 2006 (see image file wrapper - Atty. Docket No. DEXCOM.061CP1).	☐
	204	File History of U.S. Patent Application No. 11/335,879, filed on January 18, 2006, 499 pages (see image file wrapper - Atty. Docket No. DEXCOM.058A).	☐
	205	File History of U.S. Patent Application No. 11/360,262, filed on February. 22, 2006, 766 pages (see image file wrapper - Atty. Docket No. DEXCOM.051CP1).	☐
	206	File History of U.S. Patent Application No. 11/360,299, filed on February 22, 2006 (Atty. Docket No. DEXCOM.051CP2), 676 pages.	☐

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	207	File History of U.S. Patent Application No. 11/360,819, filed on February 22, 2006, 778 pages (see image file wrapper - Atty. Docket No. DEXCOM.061CP4).	☐
	208	File History of U.S. Patent Application No. 11/373,628, filed on March 9, 2006, 532 pages (see image file wrapper - Atty. Docket No. DEXCOM.053A).	☐
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	213	File History of U.S. Patent Application No. 11/439,559, filed on May 23, 2006, 155 pages (see image file wrapper - Atty. Docket No. DEXCOM.051CP4).	☐
	214	File History of U.S. Patent Application No. 11/439,630, filed on May 23, 2006 (Atty. Docket No. DEXCOM.051CP3), 1237 pages.	☐
	215	File History of U.S. Patent Application No. 11/439,800, filed on May 23, 2006, 157 pages (see image file wrapper - Atty. Docket No. DEXCOM.051CP5).	☐
	216	File History of U.S. Patent Application No. 11/445,792 filed on June 1, 2006, 811 pages (see image file wrapper - Atty. Docket No. DEXCOM.61CP3CP1). .	☐

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	217	File History of U.S. Patent Application No. 11/503,367 filed on August 10, 2006, 1169 pages (see image file wrapper - Atty. Docket No. DEXCOM.51CP3CP1). .	☐
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	223	File History of U.S. Patent Application No. 11/734,184 filed on April 11, 2007, 531 pages (see image file wrapper - Atty. Docket No. DEXCOM.61CP2CP2). .	☐
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	234	File History of U.S. Patent Application No. 11/842,149, filed on August 21, 2007, 256 pages (see image file wrapper - Atty. Docket No. DEXCOM.61CP3CPC).	☐
	235	File History of U.S. Patent Application No. 11/842,151 filed on August 21, 2007 (Atty. Docket No. DEXCOM.077C1), 252 pages.	☐
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	243	File History of U.S. Patent Application No. 12/137,396, filed on June 11, 2008 (Atty. Docket No. DEXCOM.061A2DV1), 278 pages.	☐
	244	File History of U.S. Patent Application No. 12/175,391, filed on July 17, 2008, 564 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A8C1).	☐
	245	File History of U.S. Patent Application No. 12/245,618, filed October 3, 2008, 214 pages (see image file wrapper).	☐
	246	File History of U.S. Patent Application No. 12/250,918, filed on October 14, 2008, 333 pages (see image file wrapper - Atty. Docket No. DEXCOM.051CP3DV).	☐

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	254	File History of U.S. Patent Application No. 12/405,883, filed on March 17, 2009, 215 pages (see image file wrapper).	☐
	255	File History of U.S. Patent Application No. 12/437,436, filed on May 07, 2009, 524 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A1C2).	☐
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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	283	File History of U.S. Patent Application No. 13/361,820, filed on January 30, 2012 (Atty Docket No. DEXCOM.077C2), 383 pages.	☐
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	304	File History of U.S. Patent Application No. 14/923,350, filed on October 26, 2015, 476 pages (see image file wrapper - Atty. Docket No. DEXCOM.051P1C5).	☐
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	315	File History of U.S. Patent Application No. 15/891,201, filed on February 7, 2018 (Atty Docket No. DEXCOM.077C5), 364 pages.	☐
	316	File History of U.S. Patent Application No. 15/967,338, filed on April 30, 2018, 191 pages (see image file wrapper - Atty. Docket No. DEXCOM.051P4C1).	☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

NON-PATENT LITERATURE DOCUMENTS

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	317	File History of U.S. Patent Application No. 16/017,668, filed on June 25, 2018, 308 pages (see image file wrapper - Atty. Docket No. DEXCOM.051P3C1).	☐
	318	File History of U.S. Patent Application No. 16/133,469, filed on September 17, 2018, 178 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A1C8).	☐
	319	File History of U.S. Patent Application No. 16/137,411, filed on September 20, 2018, 174 pages (see image file wrapper - Atty. Docket No. DEXCOM.51A6P1C3).	☐
	320	File History of U.S. Patent Application No. 16/179,662, filed on November 2, 2018 (Atty Docket No. DEXCOM.077C6), 272 pages.	☐
	321	File History of U.S. Patent Application No. 16/181,678, filed on November 06, 2018,155 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A6C11).	☐
	322	File History of U.S. Patent Application No. 60/362,899, filed on March 8, 2002, 67 pages (see image file wrapper).	☐
	323	File History of U.S. Patent Application No. 60/527,892, filed on December 08, 2003, 25 pages (see image file wrapper - Atty. Docket No. DEXCOM.031PR).	☐
	324	File History of U.S. Patent Application No. 60/528,382, filed on December 9, 2003, 182 pages (see image file wrapper - Atty. Docket No. DEXCOM.029PR).	☐
	325	File History of U.S. Patent Application No. 60/587,787, filed on July 13, 2004, 70 pages (see image file wrapper - Atty. Docket No. DEXCOM.049PR).	☐
	326	File History of U.S. Patent Application No. 60/587,800, filed on July 13, 2004, 29 pages (see image file wrapper - Atty. Docket No. DEXCOM.050PR).	☐

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	327	File History of U.S. Patent Application No. 60/614,683, filed on September 30, 2004, 465 pages (see image file wrapper - Atty. Docket No. DEXCOM.051PR).	☐
	328	File History of U.S. Patent Application No. 60/614,764, filed on September 30, 2004, 657 pages (see image file wrapper - Atty. Docket No. DEXCOM.052PR).	☐
	329	File History of U.S. Patent Application No. 60/660,743, filed on March 10, 2005 (Atty. Docket No. DEXCOM.053PR), 104 pages.	☐
	330	File History of U.S. Patent Application No. 90/011,086, filed on Jul. 8, 2010, 169 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A7RX).	☐
	331	File History of U.S. Patent Application No. 90/011,351, filed on November. 22, 2010, 260 pages (see image file wrapper - Atty. Docket No. DEXCOM.051X).	☐
	332	File History of U.S. Patent Application No. 90/011,663, filed on April 29, 2011, 306 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A5X1).	☐
	333	File History of U.S. Patent Application No. 90/011,887, filed on October 7, 2011, 769 pages (see image file wrapper - Atty. Docket No. DEXCOM.061P2X).	☐
	334	File History of U.S. Patent Application No. 90/012,558, filed on September 13, 2012, 294 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A7X2).	☐
	335	File History of U.S. Patent Application No. 95/001,038, filed on April 17, 2008, 1332 pages (see image file wrapper - DEXCOM.025RX).	☐
	336	File History of U.S. Patent Application No. 95/001,039, filed on April 17, 2008, 1409 pages (see image file wrapper - Atty. Docket No. DEXCOM.024RX).	☐

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	337	File History of U.S. Patent Application No. 95/002,333, filed on September 14, 2012, 556 pages (see image file wrapper - Atty. Docket No. DEXCOM.051A5X2).	☐
	338	File History of U.S. Patent Application No.11/334,876, filed on January 18, 2006, 751 pages (see image file wrapper - Atty. Docket No. DEXCOM.061CP2).	☐
	339	File History of U.S. Patent Application No.11/360,250, filed on February 22, 2006, 950 pages (see image file wrapper - Atty. Docket No. DEXCOM.077A).	☐
	340	File History of U.S. Patent Application No.11/360,252, filed on February 22, 2006, 594 pages (see image file wrapper - Atty. Docket No. DEXCOM.061CP3).	☐
	341	File History of U.S. Patent Application No.90/011,333, filed on November. 15, 2010, 315 pages (see image file wrapper - Atty. Docket No. DEXCOM.061P3X).	☐
	342	File History of U.S. Patent Application No.90/011,720, filed on November. 15, 2010, 361 pages (see image file wrapper - Atty. Docket No. DEXCOM.061A1X1).	☐
	343	FISCHER U., et al., "Assessment of Subcutaneous Glucose Concentration: Validation of the Wick Technique as a Reference for Implanted Electrochemical Sensors in Normal and Diabetic Dogs," Diabetologia, Vol. 30, 1987, pp. 940-945.	☐
	344	FISCHER U., et al., "Hypoglycaemia-Warning by Means of Subcutaneous Electrochemical Glucose Sensors: An Animal Study," Horm. Metab. Res, Vol. 27, 1995, page 53. (Abstract Only).	☐
	345	FISCHER U., et al., "Oxygen Tension at the Subcutaneous Implantation Site of Glucose Sensors," Biomed. Biochim. Acta, Vol. 48 (11/12), 1989, pp. 965-971.	☐

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	346	FREEDMAN D., et al., "Statistics," Second Edition, W.W. Norton & Company, New York & London, 1991, page 74 (3 pages).	☐
	347	FREIBERGER P., "Video Game Takes on Diabetes Superhero `Captain Novolin` Offers Treatment Tips," Fourth Edition, June 26, 1992, Business Section, 2 pages.	☐
	348	FROHNAUER M.K., et al., "Graphical Human Insulin Time-Activity Profiles Using Standardized Definitions," Diabetes Technology & Therapeutics, Vol. 3 (3), 2001, pp. 419-429.	☐
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	350	GABBY R.A., et al., "Optical Coherence Tomography-Based Continuous Noninvasive Glucose Monitoring in Patients with Diabetes," Diabetes Technology & Therapeutics, Vol. 10, November 03, 2008, pp.188-193.	☐
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	353	GAO S., et al., "Determination of Interfacial Parameters of Cellulose Acetate Membrane Materials by HPLC," Journal of Liquid Chromatography, 1989, Vol. 12(11), pp. 2083-2092.	☐
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	355	GARG S.K., et al., "Improved Glucose Excursions Using an Implantable Real-Time Continuous Glucose Sensor in Adults With Type 1 Diabetes," Emerging Treatments and Technologies, Diabetes Care, Vol. 27 (3), 2004, pp. 734-738.	☐
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	372	GROSS, et al., "Diabetes Technology & Therapeutics," Letters to the Editor, Diabetes Technology & Therapeutics, Vol. 3 (1), 2001, pp. 129-131.	☐

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	381	HALVORSEN C., et al., "Vasodilation of Rat Retinal Microvessels Induced by Monobutyrin," Journal of Clinical Investigation, December 1993, Vol. 92, pp. 2872-2876.	☐

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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	382	HAMILTON, "Complete Guide to Selecting the Right Hamilton GASTIGHT, MICROLITER, and Specialty Syringe for your Application," Syringe Selection, www.hamiltoncompany.com, 2006, 20 pages.	☐
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	385	HASHIGUCHI Y., et al., "Development of a Miniaturized Glucose Monitoring System by Combining a Needle-Type Glucose Sensor with Microdialysis Sampling Method: Long-term subcutaneous tissue glucose monitoring in ambulatory diabetic patients," Diabetes Care, Vol. 17, No. 5, May 1994, pp. 387-396.	☐
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	387	HELLER A., "Electrical Connection of Enzyme Redox Centers to Electrodes," J. Phys. Chem., Vol. 96, 1992, pp. 3579-3587.	☐
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	391	HELLER, et al., "In vivo Glucose Monitoring with Miniature "Wired" Glucose Oxidase Electrodes," Analytical Sciences, 2001, Vol. 17 SUPPLEMENT, pp. i297-i300.	☐
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	400	HUANG C., et al., "Electrochemical Generation of Oxygen. 1: The Effects of Anions and Cations on Hydrogen Chemisorption and Aniodic Oxide Film Formation on Platinum Electrode. 2: The Effects of Anions and Cations on Oxygen Generation on Platinum Electrode," U.S. Department of Commence/NTIS, 1975, 126 pages.	☐

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	401	HUANG Q., et al., "A 0.5mW Passive Telemetry IC for Biomedical Applications," Proceedings of the 23rd European Solid-State Circuits Conference (ESSCIRC '97), Southampton, UK, September 16-18, 1997, pp. 172-175.	☐
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	403	International Preliminary Examination Report for Application No. PCT/US2002/023903 mailed April 18, 2005, 5 pages - Atty. Docket No. DEXCOM.007VPC.	☐
	404	International Preliminary Report on Patentability for Application No. PCT/US2004/023455 mailed January 23, 2006, 7 pages - Atty. Docket No. DEXCOM.019VPC.	☐
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	407	International Preliminary Report on Patentability for Application No. PCT/US2005/024993 mailed January 16, 2007, 7 pages - Atty. Docket No. DEXCOM.051VPC.	☐
	408	International Preliminary Report on Patentability for Application No. PCT/US2005/024994 mailed January 16, 2007, 8 pages - Atty. Docket No. DEXCOM.050VPC.	☐
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	412	International Preliminary Report on Patentability for Application No. PCT/US2006/031496 mailed November 27, 2008, 8 pages - Atty. Docket No. DEXCOM.051BPC.	☐
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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	458	KARGOL M., et al., "Studies on the Structural Properties of Porous Membranes: Measurement of Linear Dimensions of Solutes," Biophysical Chemistry, 2001, Vol. 91, pp. 263-271.	☐
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	494	LEPRINCE P., et al., "Expanded Polytetrafluoroethylene Membranes to Wrap Surfaces of Circulatory Support Devices in Patients Undergoing Bridge to Heart Transplantation," European Journal of Cardiothoracic Surgery, 2001, Vol. 19, pp. 302-306.	☐
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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	512	MALIN S.F., et al., "Noninvasive Prediction of Glucose by Near-Infrared Diffuse Reflectance Spectroscopy," Clinical Chemistry, Vol. 45 (9), 1999, pp. 1651-1658.	☐
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	531	McGRATH M.J., et al., "The Use of Differential Measurements with a Glucose Biosensor for Interference Compensation During Glucose Determinations by Flow Injection Analysis," Biosens Bioelectron, Vol. 10, 1995, pp. 937-943.	☐
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	540	Mid-West Innovators, Inc., "Durometer Product Description," 2014, 1 page.	☐
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	566	Notice of Allowance for U.S Application No. 12/422,223, mailed June 22, 2012, 8 pages.	☐
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	574	Office Action for U.S Application No. 10/991,966, mailed July 22, 2008, 12 pages - Atty. Docket No. DEXCOM.032A.	☐
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	576	Office Action for U.S Application No. 11/007,635, mailed January 27, 2006, 9 pages - Atty. Docket No. DEXCOM.031A.	☐
	577	Office Action for U.S Application No. 11/007,920, mailed June 24, 2008, 10 pages - Atty. Docket No. DEXCOM.029A.	☐
	578	Office Action for U.S Application No. 11/021,046, mailed August 19, 2009, 6 pages - Atty. Docket No. DEXCOM.008DV1C.	☐
	579	Office Action for U.S Application No. 11/021,046, mailed December 26, 2007, 6 pages - Atty. Docket No. DEXCOM.008DV1C.	☐
	580	Office Action for U.S Application No. 11/021,046, mailed February 04, 2009, 7 pages - Atty. Docket No. DEXCOM.008DV1C.	☐
	581	Office Action for U.S Application No. 11/021,046, mailed June 23, 2008, 6 pages - Atty. Docket No. DEXCOM.008DV1C.	☐
	582	Office Action for U.S Application No. 11/021,162, mailed June 19, 2008, 8 pages - Atty. Docket No. DEXCOM.007C1.	☐
	583	Office Action for U.S Application No. 11/034,343, mailed December 30, 2008, 4 pages - Atty. Docket No. DEXCOM.040A.	☐
	584	Office Action for U.S Application No. 11/034,343, mailed July 10, 2008, 6 pages - Atty. Docket No. DEXCOM.040A.	☐
	585	Office Action for U.S Application No. 11/034,343, mailed November 01, 2007, 5 pages - Atty. Docket No. DEXCOM.040A.	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	586	Office Action for U.S Application No. 11/034,344, mailed January 15, 2008, 5 pages - Atty. Docket No. DEXCOM.039A.	☐
	587	Office Action for U.S Application No. 11/038,340, mailed February 02, 2010, 18 pages - Atty. Docket No. DEXCOM.024C1.	☐
	588	Office Action for U.S Application No. 11/038,340, mailed January 05, 2009, 13 pages - Atty. Docket No. DEXCOM.024C1.	☐
	589	Office Action for U.S Application No. 11/038,340, mailed June 07, 2010, 18 pages - Atty. Docket No. DEXCOM.024C1.	☐
	590	Office Action for U.S Application No. 11/038,340, mailed June 17, 2008, 11 pages - Atty. Docket No. DEXCOM.024C1.	☐
	591	Office Action for U.S Application No. 11/038,340, mailed May 19, 2009, 14 pages - Atty. Docket No. DEXCOM.024C1.	☐
	592	Office Action for U.S Application No. 11/038,340, mailed November 09, 2009, 16 pages - Atty. Docket No. DEXCOM.024C1.	☐
	593	Office Action for U.S Application No. 11/055,779, mailed May 23, 2007, 13 pages - Atty. Docket No. DEXCOM.034A.	☐
	594	Office Action for U.S Application No. 11/055,779, mailed October 24, 2007, 15 pages - Atty. Docket No. DEXCOM.034A.	☐
	595	Office Action for U.S Application No. 11/077,759, mailed July 10, 2008, 10 pages - Atty. Docket No. DEXCOM.050A.	☐

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	596	Office Action for U.S Application No. 11/077,759, mailed March 31, 2008, 16 pages - Atty. Docket No. DEXCOM.050A.	☐
	597	Office Action for U.S Application No. 11/077,759, mailed May 17, 2007, 13 pages - Atty. Docket No. DEXCOM.050A.	☐
	598	Office Action for U.S Application No. 11/077,759, mailed May 26, 2009, 8 pages - Atty. Docket No. DEXCOM.050A.	☐
	599	Office Action for U.S Application No. 11/415,631, mailed March 04, 2010, 6 pages - Atty. Docket No. DEXCOM.011DV3.	☐
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	601	Office Action for U.S Application No. 11/416,346, mailed March 04, 2010, 7 pages - Atty. Docket No. DEXCOM.011DV2.	☐
	602	Office Action for U.S Application No. 11/416,734, mailed May 17, 2010, 10 pages - Atty. Docket No. DEXCOM.012CP1C2.	☐
	603	Office Action for U.S Application No. 11/416,734, mailed October 14, 2009, 11 pages - Atty. Docket No. DEXCOM.012CP1C2.	☐
	604	Office Action for U.S Application No. 11/416,825, mailed October 22, 2009, 11 pages - Atty. Docket No. DEXCOM.012CP1C1.	☐
	605	Office Action for U.S Application No. 11/543,539, mailed December 12, 2007, 8 pages - Atty. Docket No. DEXCOM.038CP2.	☐

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	607	Office Action for U.S Application No. 11/543,683, mailed December 12, 2007, 8 pages - Atty. Docket No. DEXCOM.038CP3.	☐
	608	Office Action for U.S Application No. 11/543,683, mailed May 18, 2007, 7 pages - Atty. Docket No. DEXCOM.038CP3.	☐
	609	Office Action for U.S Application No. 11/543,707, mailed December 12, 2007, 8 pages - Atty. Docket No. DEXCOM.038CP1.	☐
	610	Office Action for U.S Application No. 11/543,707, mailed May 18, 2007, 6 pages - Atty. Docket No. DEXCOM.038CP1.	☐
	611	Office Action for U.S Application No. 11/543,734, mailed December 17, 2007, 11 pages - Atty. Docket No. DEXCOM.038CP4.	☐
	612	Office Action for U.S Application No. 11/543,734, mailed June 05, 2007, 7 pages - Atty. Docket No. DEXCOM.038CP4.	☐
	613	Office Action for U.S Application No. 11/546,157, mailed February 26, 2010, 6 pages - Atty. Docket No. DEXCOM.8DCP2CC1.	☐
	614	Office Action for U.S Application No. 11/691,424, mailed December 08, 2009, 10 pages - Atty. Docket No. DEXCOM.088CP3.	☐
	615	Office Action for U.S Application No. 11/691,424, mailed June 11, 2009, 21 pages - Atty. Docket No. DEXCOM.088CP3.	☐

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Sheet | 246 | of | 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	617	Office Action for U.S Application No. 11/691,424, mailed September 25, 2008, 15 pages - Atty. Docket No. DEXCOM.088CP3.	☐
	618	Office Action for U.S Application No. 11/691,432, mailed February 18, 2010, 11 pages - Atty. Docket No. DEXCOM.088CP2.	☐
	619	Office Action for U.S Application No. 11/691,432, mailed June 10, 2009, 17 pages - Atty. Docket No. DEXCOM.088CP2.	☐
	620	Office Action for U.S Application No. 11/691,432, mailed November 30, 2009, 15 pages - Atty. Docket No. DEXCOM.088CP2.	☐
	621	Office Action for U.S Application No. 11/691,432, mailed September 19, 2008, 11 pages - Atty. Docket No. DEXCOM.088CP2.	☐
	622	Office Action for U.S Application No. 11/691,466, mailed October 03, 2008, 15 pages - Atty. Docket No. DEXCOM.088CP4.	☐
	623	Office Action for U.S Application No. 11/692,154, mailed January 22, 2009, 9 pages - Atty. Docket No. DEXCOM.38CP1CP1.	☐
	624	Office Action for U.S Application No. 11/692,154, mailed July 08, 2009, 6 pages - Atty. Docket No. DEXCOM.38CP1CP1.	☐
	625	Office Action for U.S Application No. 12/037,812, mailed April 01, 2009, 5 pages - Atty. Docket No. DEXCOM.8DV1CPD2.	☐

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First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
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	626	Office Action for U.S Application No. 12/037,812, mailed July 24, 2009, 6 pages - Atty. Docket No. DEXCOM.8DV1CPD2.	☐
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	631	Office Action for U.S Application No. 12/037,830, mailed September 29, 2008, 6 pages - Atty. Docket No. DEXCOM.8DV1CPD1.	☐
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	633	Office Action for U.S Application No. 12/055,098, mailed October 05, 2010, 12 pages - Atty. Docket No. DEXCOM.106A.	☐
	634	Office Action for U.S Application No. 12/098,359, mailed July 07, 2010, 18 pages - Atty. Docket No. DEXCOM.024C1D1.	☐
	635	Office Action for U.S Application No. 12/102,654, mailed July 30, 2009, 9 pages - Atty. Docket No. DEXCOM.016DV1.	☐

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	644	Office Action for U.S Application No. 12/139,305, mailed January 13, 2010, 12 pages - Atty. Docket No. DEXCOM.023RE.	☐
	645	Office Action for U.S Application No. 12/182,073, mailed June 28, 2010, 20 pages - Atty. Docket No. DEXCOM.032C1.	☐

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	652	Office Action for U.S Application No. 12/829,337, mailed October 05, 2012, 10 pages - Atty. Docket No. DEXCOM.157A3.	☐
	653	Office Action from European Patent Application No. 05771646.6, dated August 16, 2011, 3 pages - Atty. Docket No. DEXCOM.050VEP.	☐
	654	Office Action from European Patent Application No. 05771646.6, dated August 19, 2009, 4 pages - Atty. Docket No. DEXCOM.050VPC.	☐
	655	Office Action from European Patent Application No. 05771646.6, dated June 2, 2010, 5 pages - Atty. Docket No. DEXCOM.050VPC.	☐

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Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	656	Office Action from European Patent Application No. 05856669.6, dated August 4, 2011, 7 pages - Atty. Docket No. DEXCOM.044VEP.	☐
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	661	Office Action from Japanese Patent Application No. 2011-121598 dated October 18, 2011, 9 pages - Atty. Docket No. DEXCOM.051VJPD1.	☐
	662	Office Action from Japanese Patent Application No. 2012-006893 dated May 22, 2012, 4 pages - Atty. Docket No. DEXCOM.051VJPD2.	☐
	663	Office Action from Japanese Patent Application No. 2012-169323 dated October 16, 2012, 4 pages - Atty. Docket No. DEXCOM.051VJPD3.	☐
	664	Office Action from Japanese Patent Application No. 2013-000959 dated January 31, 2014, 6 pages - Atty. Docket No. DEXCOM.051VJPD4.	☐
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	675	PATEL H., et al., "Amperometric Glucose Sensors Based on Ferrocene Containing Polymeric Electron Transfer Systems--A Preliminary Report," Biosensors & Bioelectronics, Vol. 18, 2003, pp. 1073-1076.	☐
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Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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Sheet 264 of 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

NON-PATENT LITERATURE DOCUMENTS

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	781	TAMURA T., et al., "Preliminary Study of Continuous Glucose Monitoring with a Microdialysis Technique and a Null Method-A Numerical Analysis," Frontiers of Medical & Biological Engineering, Vol. 10 (2), 2000, pp. 147-156.	☐
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	826	WADE L.G., "Reactions of Aromatic Compounds," Organic Chemistry, Chapter 17, 5th edition, 2003, pp. 762-763.	☐
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	835	WARD, et al., "A Wire-Based Dual-Analyte Sensor for Glucose and Lactate: In Vitro and In Vivo Evaluation," Diabetes Technology and Therapeutics, 2004, Vol. 6 (3), pp. 389-401.	☐
	836	WIENTJES K.J.C., "Development of a Glucose Sensor for Diabetic Patients," (Ph.D. Thesis), 2000, 212 pages.	☐
	837	WIKIPEDIA., "Intravenous Therapy," http://en.wikipedia.org/wiki/Intravenous_therapy, August 15, 2006, 6 pages.	☐
	838	WILKINS E., et al., "Glucose Monitoring: State of the Art and Future Possibilities," Med. Eng. Phys., Vol. 18 (4), 1996, pp. 273-288.	☐
	839	WILKINS E., et al., "Integrated Implantable Device for Long-Term Glucose Monitoring," Biosensors & Bioelectronics, Vol. 10, 1995, pp. 485-494.	☐
	840	WILKINS E.S., et al., "The Coated Wire Electrode Glucose Sensor," Horm Metab Res Suppl., Vol. 20, 1988, pp. 50-55.	☐
	841	WILSON G.S., et al., "Enzyme-Based Biosensors for In Vivo Measurements," Chem. Rev., Vol. 100, 2000, pp. 2693-2704.	☐
	842	WILSON G.S., et al., "Progress Toward the Development of an Implantable Sensor for Glucose," Clinical Chemistry, Vol. 38 (9), 1992, pp. 1613-1617.	☐
	843	WOLPERT H., "Establishing a Continuous Glucose Monitoring Program," Journal of Diabetes Science and Technology, March 2008, Vol. 2 (2), pp. 307-310.	☐
	844	WOOD W D., et al., "Hermetic Sealing with Epoxy," Pave Technology-Mechanical Engineering, March 1990, 3 pages.	☐

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 271 of 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author(in CAPITAL LETTERS),title of the article(when appropriate), title of the item (book,magazine,journal,serial,symposium,catalog,etc.),date,page(s),volume-issue number(s),publisher, city and/or country where published.	T[2]
	845	WOODWARD S.C., "How Fibroblasts and Giant Cells Encapsulate Implants: Considerations in Design of Glucose Sensor," Diabetes Care, Vol. 5 (3) May-June 1982, pp. 278-281.	☐
	846	WORSLEY G.J et al., "Measurement of Glucose in Blood with a Phenylboronic Acid Optical Sensor," Journal of Diabetes Science and Technology, Vol. 2 (2), March 2008, pp. 213-220.	☐
	847	WRIGHT M., et al., "Bioelectrochemical Dehalogenations Via Direct Electrochemistry of Poly(ethylene oxide)-Modified Myoglobin," Electrochemistry Communications, Vol. 1, 1999, pp. 609-613.	☐
	848	Written Opinion for Application No. PCT/US2002/023903 mailed November 15, 2004, 5 pages - Atty. Docket No. DEXCOM.007VPC.	☐
	849	WU H., et al., "In Situ Electrochemical Oxygen Generation with an Immunoisolation Device," Annals New York Academy of Sciences, Vol. 875, 1999, pp. 105-125.	☐
	850	YAMASAKI Y., "The Development of a Needle-Type Glucose Sensor for Wearable Artificial Endocrine Pancreas," Medical Journal of Osaka University, Vol. 35 (1-2), September 1984, pp. 25-34.	☐
	851	YAMASAKI Y., et al., "Direct Measurement of Whole Blood Glucose by a Needle-Type Sensor," Clinica Chimica Acta. 93, 1989, pp. 93-98.	☐
	852	YANG C., et al., "A Comparison of Physical Properties and Fuel Cell Performance of Nafion and Zirconium Phosphate/Nation Composite Membranes," Journal of Membrane Science, Vol. 237, 2004, pp. 145-161.	☐
	853	YANG Q., et al., "Development of Needle-Type Glucose Sensor with High Selectivity," Science and Actuators B, Vol. 46, 1998, pp. 249-256.	☐

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 272 of 274

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack
Art Unit	3791
Examiner Name	Unassigned
Attorney Docket Number	DEXCOM.053C22

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	854	YANG S., et al., "A Glucose Biosensor Based On an Oxygen Electrode: In-Vitro Performances in a Model Buffer Solution and in Blood Plasma," Biomedical Instrumentation & Technology, Vol. 30 (1), 1996, pp. 55-61.	☐
	855	YANG S., et al., "Glucose Biosensors with Enzyme Entrapped in Polymer Coating," Biomedical Instrument and Technology, March/April 1995, Vol. 29 (2), pp. 125-133.	☐
	856	YANG X., et al., "Polyelectrolyte and Molecular Host Ion Self-Assembly to Multilayer Thin Films: An Approach to Thin Film Chemical Sensors," Sensors and Actuators B, Vol. 45, 1997, pp. 87-92.	☐
	857	YE L., et al., "High Current Density Wired' Quinoprotein Glucose Dehydrogenase Electrode," Analytical Chemistry, Vol. 65, 1993, pp. 238-241.	☐
	858	ZAMZOW K.L., et al., "Development and Evaluation of a Wearable Blood Glucose Monitor," ASAIO Transactions, Vol. 36 (3), 1990, pp. M588-M591.	☐
	859	ZAVALKOFF S.R., et al., "Evaluation Of Conventional Blood Glucose Monitoring as An Indicator of Integrated Glucose Values Using a Continuous Subcutaneous Sensor," Diabetes Care, Vol. 25(9), 2002, pp. 1603-1606.	☐
	860	ZETHELIUS B., et al., "Use Of Multiple Biomarkers to Improve the Prediction of Death From Cardiovascular Causes," N. Engl. J. Med., Vol. 358, May 2008, pp. 2107-2116.	☐
	861	ZHANG Y., et al., "Electrochemical Oxidation Of H2O2 On Pt and Pt + Ir Electrodes in Physiological Buffer and its Applicability to H2O2- Based Biosensors," J. Electro Analytical Chemistry, Vol. 345, 1993, pp. 253-271.	☐
	862	ZHANG Y., et al., "In Vitro and In Vivo Evaluation of Oxygen Effects on a Glucose Oxidase Based Implantable Glucose Sensor," Analytica Chimica Acta, Vol. 281, 1993, pp. 513-520.	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 273 of 274

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	863	ZHANG, et al., "Elimination of the Acetaminophen Interference in an Implantable Glucose Sensor," Analytical Chemistry, 1994, Vol. 66 (7), pp. 1183-1188.	☐
	864	ZHU, et al., "Fabrication and Characterization of Glucose Sensors Based on a Microarray H2O2 Electrode," Biosensors & Bioelectronics, 1994, Vol. 9, pp. 295-300.	☐
	865	ZHU, et al., "Planar Amperometric Glucose Sensor Based on Glucose Oxidase Immobilized by Chitosan Film on Prussian blue Layer," Sensors, 2002, Vol. 2, pp. 127-136.	☐
	866	ZIAIE, et al., "A Single-Channel Implantable Microstimulator for Functional Neuromuscular Stimulation," IEEE Transactions on Biomedical Engineering, 1997, Vol. 44(10), pp. 909-920.	☐

Examiner Signature	/NAVIN NATNITHITHADHA/	Date Considered	01/17/2020

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/690,977	Filing Date 11/21/2019	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $460 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	03/09/2020	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 10	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ANGELONA D JONES/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor	:	Jack Pryor
App. No.	:	16/690977
Filed	:	November 21, 2019
For	:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
Examiner	:	Natnithithadha, Navin
Art Unit	:	3791
Conf. No.	:	3197

AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action dated January 22, 2020, Applicant respectfully requests entry of the following amendments and consideration of the following remarks.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.

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AMENDMENTS TO THE CLAIMS

1-20. (Canceled)

21. (**Currently Amended**) A glucose monitoring system comprising:

a transcutaneous electrochemical glucose sensor ~~having~~ comprising an *in vivo* ~~in vivo~~ portion and an *ex vivo* ~~ex vivo~~ portion, wherein the transcutaneous electrochemical sensor is characterized by an *in vivo* sensitivity and an *in vitro* sensitivity, wherein the *in vivo* sensitivity is different from the *in vitro* sensitivity, and wherein the *in vitro* sensitivity is predictive of the *in vivo* sensitivity due to a relationship therebetween;

sensor electronics configured to be operably connected to the transcutaneous electrochemical glucose sensor;

a processor configured to be operably connected to the sensor electronics;

a memory configured to be operably connected to the processor, wherein the memory has stored therein information associated with the *in vivo* sensitivity of the transcutaneous electrochemical glucose sensor, wherein the information associated with the *in vivo* sensitivity is based at least in part on corrections for the difference between the *in vivo* sensitivity and the *in vitro* sensitivity of the transcutaneous electrochemical glucose sensor.

22. (**Currently Amended**) A method for calibrating data from a transcutaneous electrochemical glucose sensor, the method comprising:

receiving sensor data from the transcutaneous electrochemical glucose sensor after at least a portion of the transcutaneous electrochemical glucose sensor is inserted ~~implanted~~ in a host, wherein the sensor data is indicative of a glucose concentration in the host; and

calibrating, using a processor, the sensor data received from the transcutaneous electrochemical glucose sensor, wherein the calibrating is based at least in part on information associated with an *in vivo* sensitivity of the transcutaneous electrochemical glucose sensor, wherein the information associated with the *in vivo* sensitivity is based at least in part on corrections for a

difference between the *in vivo* sensitivity and an *in vitro* sensitivity for the transcutaneous electrochemical glucose sensor.

23. (**New**) The glucose monitoring system of claim 21, wherein the relationship between the *in vivo* sensitivity and the *in vitro* sensitivity is established empirically by performing a clinical study and comparing *in vivo* sensitivities with *in vitro* sensitivities of a plurality of transcutaneous glucose sensors.

24. (**New**) The glucose monitoring system of claim 21, wherein the *in vivo* sensitivity is greater than the *in vitro* sensitivity.

25. (**New**) The glucose monitoring system of claim 21, wherein the processor is configured to calibrate sensor data from the transcutaneous electrochemical glucose sensor using the information associated with *in vivo* sensitivity of the transcutaneous electrochemical glucose sensor without reliance on reference glucose concentration values obtained after insertion of at least a portion of the transcutaneous electrochemical glucose sensor in a host.

26. (**New**) The method for calibrating data from a transcutaneous electrochemical glucose sensor of claim 22, wherein the calibrating requires no user calibrations after the at least a portion of the transcutaneous electrochemical glucose sensor is inserted in the host.

27. (**New**) The method for calibrating data from a transcutaneous electrochemical glucose sensor of claim 22, wherein the difference between the *in vivo* sensitivity and the *in vitro* sensitivity for the transcutaneous electrochemical glucose sensor is determined prior to the insertion of the at least a portion of the transcutaneous electrochemical glucose sensor into the host.

28. (**New**) The method for calibrating data from a transcutaneous electrochemical glucose sensor of claim 22, wherein the *in vitro* sensitivity for the transcutaneous electrochemical glucose sensor is based at least in part on sampling a plurality of transcutaneous electrochemical glucose sensors prior to inserting the at least a portion of the transcutaneous electrochemical glucose sensor in the host.

29. (**New**) The method for calibrating data from a transcutaneous electrochemical glucose sensor of claim 28, wherein the *in vitro* sensitivity is calculated at least in part by examining a signal response of each of the plurality of transcutaneous electrochemical glucose sensors to a set of known glucose concentrations.

Abbott Ex. 1003 - 796/875

30. (**New**) A method for providing calibrated glucose information based on sensor data from a transcutaneous electrochemical glucose sensor, the method comprising:

receiving, by a processor, post-implantation sensor data from the transcutaneous electrochemical glucose sensor, wherein the sensor data is indicative of a glucose concentration in a host;

receiving, by the processor, information associated with an *in vivo* sensitivity of the transcutaneous electrochemical glucose sensor, wherein the information associated with the *in vivo* sensitivity is based at least in part on corrections for a difference between the *in vivo* sensitivity and an *in vitro* sensitivity for the transcutaneous electrochemical glucose sensor;

generating calibrated sensor data, using the processor, by using the information associated with the *in vivo* sensitivity of the transcutaneous electrochemical glucose sensor to calibrate the sensor data received from the transcutaneous electrochemical glucose sensor; and

providing the calibrated sensor data to a user to facilitate monitoring a glucose level of the host.

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REMARKS

By this amendment, claims 21 and 22 are amended, and new claims 23-30 are added. Support for the amendments and new claims is found in the specification and claims as filed. Upon entry of the amendment, claims 21-30 will be pending and under consideration. Cancellation and/or amendment of certain claims in this response or any other response is not to be construed as a dedication to the public of any of the subject matter of the claims as previously presented, and Applicant reserves the ability to pursue the amended claims as filed, the canceled claims or similar claims in one or more continuing applications, e.g., continuation, divisional, or continuation-in-part applications.

Claim Rejection under 35 U.S.C. Section 102

Claims 21 and 22 stand rejected as anticipated by U.S. Patent 6,248,067 to Causey. "A rejection for anticipation under section 102 requires that each and every limitation of the claimed invention be disclosed in a single prior art reference." *See, e.g., In re Paulsen*, 31 U.S.P.Q.2d 1671 (Fed. Cir. 1994).

The limitations of claims 21 and 22 as amended are set forth above. Applicant respectfully asserts that Causey fails to disclose all limitations of Applicant's claims as amended.

Because Causey does not disclose every element of Applicant's claims, it therefore cannot be considered as an anticipating reference under 35 U.S.C. § 102. Accordingly, and for at least this reason, Applicant respectfully requests that the rejection be withdrawn.

Double Patenting Rejection

Claims 21 and 22 are rejected for statutory double patenting over copending U.S. Application No. 16/691,107, U.S. Application No. 16/691,252, and U.S. Application No. 16/691,325. The applicant respectfully submits that with the claim amendments presented herewith, this rejection is overcome.

The Applicant respectfully submits that the claims are in condition for allowance, and favorable action is earnestly requested.

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No Disclaimers or Disavowals

Although the present communication may include alterations to the application or claims, or characterizations of claim scope or referenced art, Applicant is not conceding in this application that previously pending claims are not patentable over the cited references. Rather, any alterations or characterizations are being made to facilitate expeditious prosecution of this application. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the present disclosure, including subject matter found to be specifically disclaimed herein or by any prior prosecution. Accordingly, reviewers of this or any parent, child or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Any remarks in support of patentability of one claim should not be imputed to any other claim, even if similar terminology is used. Any language or remarks referring to only a portion of a claim should not necessarily be understood to base patentability on solely that portion; rather, patentability rests on each claim taken as a whole.

Applicant respectfully submits that to the extent any disclaimers or statements were made previously during prosecution with respect to the scope of the claimed invention, such disclaimers and statements are hereby rescinded.

Applicant respectfully reserves the ability to traverse any of the rejections, assertions and submissions made in connection with the application, even if not discussed herein, including the right to challenge later whether any of the cited references is prior art. The absence of a reply to a specific rejection, issue, or comment does not signify agreement with or concession of that rejection, issue, or comment. In addition, because any arguments made may not be exhaustive, there may be other reasons that have not been expressed for patentability of any or all claims. When amendments are made to any claims, no acquiescence or estoppel is implied thereby; such amendments are made only to expedite prosecution of the present application and are without prejudice to the presentation or assertion, in the future, of claims directed to subject matter that is same as or similar to that previously presented. Nothing in this paper should be construed as an

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intent to concede, or actual concession of, any issue with regard to any claim, or to any cited art, except as specifically stated in this paper, and the amendment or cancellation of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment or cancellation.

In the interest of clarity and brevity, every assertion made in the Office Action may not have been equally addressed. Silence regarding any such assertion does not constitute any admission or acquiescence. All rights not exercised in connection with this response, such as the right to challenge or rebut any tacit or explicit characterization of any reference or of any of the present claims, the right to challenge or rebut any asserted factual or legal basis of any of the rejections, the right to swear behind any cited reference such as provided under 37 C.F.R. § 1.131 or otherwise, or the right to assert co-ownership of any cited reference, are reserved. It is not admitted that any of the cited references or any other references of record are relevant to the present claims, or that they constitute prior art. To the extent that any rejection or assertion is based upon the Examiner's personal knowledge, rather than any objective evidence of record as manifested by a cited prior art reference, timely objection to such reliance on Official Notice is made, and all rights to request that the Examiner provide a reference or affidavit in support of such assertion, as required by MPEP § 2144.03, are reserved. All rights to pursue any cancelled claims in a subsequent patent application claiming the benefit of priority of the present patent application, and to request rejoinder of any withdrawn claim, as required by MPEP § 821.04, are likewise reserved.

Conclusion

Should the Examiner have any concerns that might prevent the prompt allowance of the application, the Examiner is respectfully invited to contact the undersigned at the telephone number below.

Abbott Ex. 1003 - 800/875

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 9, 2020

By: /Rose M. Thiessen/
Rose M. Thiessen
Registration No. 40,202
Registered Practitioner
(858) 707-4000

32400819

Abbott Ex. 1003 - 801/875

Electronic Acknowledgement Receipt

EFS ID:	38811502
Application Number:	16690977
International Application Number:	
Confirmation Number:	3197
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Jack Pryor
Customer Number:	68851
Filer:	Rose M. Thiessen/Christina Graul
Filer Authorized By:	Rose M. Thiessen
Attorney Docket Number:	DEXCOM.053C22
Receipt Date:	09-MAR-2020
Filing Date:	21-NOV-2019
Time Stamp:	17:50:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		AMENDMENT-TO-OA.pdf	48379 871607c91ba441a25a13736074ff17695882 77c5	yes	8

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	4
	Applicant Arguments/Remarks Made in an Amendment	5	8
Warnings:			
Information:			
	Total Files Size (in bytes):	48379	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/690,977	11/21/2019	Jack Pryor	DEXCOM.053C22

CONFIRMATION NO. 3197

68851
KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

PUBLICATION NOTICE



Title:SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

Publication No.US-2020-0085354-A1
Publication Date:03/19/2020

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

UNITED STATES PATENT AND TRADEMARK OFFICE

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NOTICE OF ALLOWANCE AND FEE(S) DUE

68851 7590 03/25/2020

KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER
NATNITHITHADHA, NAVIN

ART UNIT	PAPER NUMBER
3791	

DATE MAILED: 03/25/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/690,977	11/21/2019	Jack Pryor	DEXCOM.053C22	3197

TITLE OF INVENTION: SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	06/25/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

68851 7590 03/25/2020

KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/690,977	11/21/2019	Jack Pryor	DEXCOM.053C22	3197

TITLE OF INVENTION: SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	06/25/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
NATNITHITHADHA, NAVIN	3791	600-365000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

Abbott Ex. 1003 - 806/875

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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/690,977	11/21/2019	Jack Pryor	DEXCOM.053C22	3197

68851 7590 03/25/2020

KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
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IRVINE, CA 92614

EXAMINER	
NATNITHITHADHA, NAVIN	
ART UNIT	PAPER NUMBER
3791	

DATE MAILED: 03/25/2020

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Abbott Ex. 1003 - 807/875

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 16/690,977	Applicant(s) Pryor et al.	
	Examiner NAVIN NATNITHITHADHA	Art Unit 3791	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to the Amendment and Remarks, filed 09 March 2020.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 21-30 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/NAVIN NATNITHITHADHA/
Primary Examiner, Art Unit 3791

REASONS FOR ALLOWANCE

1. The present application is being examined under the pre-AIA first to invent provisions.

2. According to the Amendment, filed 09 March 2020, the status of the claims is as follows:

Claims 21 and 22 are currently amended;

Claims 23-30 are new; and

Claims 1-20 are cancelled.

4. Applicant's arguments, see Remarks, p. 6, filed 09 March 2020, with respect to the rejection of claims 21 and 22 under pre-AIA 35 U.S.C. 102(b) as being anticipated by Causey et al, U.S. Patent No. 6,248,067 B1 ("Causey"), have been fully considered, and are persuasive in view of the Amendment, filed 09 March 2020. The rejection of claim 13 has been withdrawn.

5. The provisional rejection of claims 21 and 22 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 21 and 22 of copending Application No. 16/691,107 (reference application), is withdrawn in view of the Amendment, filed 09 March 2020.

6. The provisional rejection of claims 21 and 22 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 21 and 22 of copending Application No. 16/691,252 (reference application), is withdrawn in view of the Amendment, filed 09 March 2020.

7. The provisional rejection of claims 21 and 22 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 21 and 22 of copending Application No. 16/691,325 (reference application), is withdrawn in view of the Amendment, filed 09 March 2020.

8. Claims 21-30 are allowed.

9. The following is an examiner's statement of reasons for allowance:

As to Claims 21 and 23-25, neither Causey nor the prior art of record teaches the system of base claim 21, including the following, in combination with all other limitations of the base claim:

> …
> wherein the transcutaneous electrochemical sensor is characterized by an *in vivo* sensitivity and an *in vitro* sensitivity, wherein the *in vivo* sensitivity is different from the *in vitro* sensitivity, and wherein the *in vitro* sensitivity is predictive of the *in vivo* sensitivity due to a relationship therebetween;
> …
> wherein the information associated with the *in vivo* sensitivity is based at least in part on corrections for the difference between the *in vivo* sensitivity and the *in vitro* sensitivity of the transcutaneous electrochemical glucose sensor.

As to Claims 22 and 26-29, neither Causey nor the prior art of record teaches the system of base claim 21, including the following, in combination with all other limitations of the base claim:

> …
> wherein the calibrating is based at least in part on information associated with an *in vivo* sensitivity of the transcutaneous electrochemical glucose sensor, wherein the information associated with the *in vivo* sensitivity is based at least in part on corrections for a difference between the *in vivo* sensitivity and an *in vitro* sensitivity for the transcutaneous electrochemical glucose sensor.

As to Claim 30, neither Causey nor the prior art of record teaches the system of base claim 30, including the following, in combination with all other limitations of the base claim:

> …
> receiving, by the processor, information associated with an *in vivo* sensitivity of the transcutaneous electrochemical glucose sensor, wherein the information associated with the *in vivo* sensitivity is based at least in part on corrections for a difference between the *in vivo* sensitivity and an *in vitro* sensitivity for the transcutaneous electrochemical glucose sensor;
> generating calibrated sensor data, using the processor, by using the information associated with the *in vivo* sensitivity of the transcutaneous electrochemical glucose sensor to calibrate the sensor data received from the transcutaneous electrochemical glucose sensor; and
> …

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAVIN NATNITHITHADHA whose telephone number is (571)272-4732. The examiner can normally be reached on Monday - Friday 6:00 am - 8:30 am & 10:30 am - 4:00 pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Chen can be reached on 571-272-3672. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/NAVIN NATNITHITHADHA/
Primary Examiner, Art Unit 3791
03/16/2020

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/690,977	Pryor et al.
	Examiner	Art Unit
	NAVIN NATNITHITHADHA	3791

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61B5/14546 OR A61B5/0031 OR A61B5/1451 OR A61B5/14532 OR A61B5/1473 OR A61B5/14865 OR A61B5/1495 OR Y02A90/26 OR A61B5/14503 OR A61B5/1468 OR A61B5/14735 OR A61B5/1486 OR A61B2560/0223	01/15/2020	/NN/
A61B5/14546 OR A61B5/0031 OR A61B5/1451 OR A61B5/14532 OR A61B5/1473 OR A61B5/14865 OR A61B5/1495 OR Y02A90/26 OR A61B5/14503 OR A61B5/1468 OR A61B5/14735 OR A61B5/1486 OR A61B2560/0223	03/16/2020	/NN/

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
600	309,345-366	01/15/2020	/NN/
600	309,345-366	03/16/2020	/NN/

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
EAST (attached): USPAT, US-PGPUB, Inventor, Assignee, Keyword, IDS, USPC, CPC searches	01/15/2020	/NN/
EAST (attached): USPAT, US-PGPUB, EPO, JPO, Derwent, Forward /Backward Citation, Inventor, Assignee, Keyword, Art of Record, Inventor, USPC, CPC searches	03/16/2020	/NN/

/N.N/ Primary Examiner, Art Unit 3791	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/690,977	Pryor et al.
	Examiner	Art Unit
	NAVIN NATNITHITHADHA	3791

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	A61B5/14546 OR A61B5/0031 OR A61B5/1451 OR A61B5/14532 OR A61B5/1473 OR A61B5/14865 OR A61B5/1495 OR Y02A90/26 OR A61B5/14503 OR A61B5/1468 OR A61B5/14735 OR A61B5/1486 OR A61B2560/0223	03/16/2020	/NN/

/N.N/ Primary Examiner, Art Unit 3791	

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/690,977	Pryor et al.
	Examiner	**Art Unit**
	NAVIN NATNITHITHADHA	3791

CPC						
Symbol					**Type**	**Version**
A61B	/	5	/	14546	F	2013-01-01
A61B	/	5	/	1473	I	2013-01-01
A61B	/	5	/	0031	I	2013-01-01
A61B	/	5	/	14532	I	2013-01-01
A61B	/	5	/	14865	I	2013-01-01
A61B	/	5	/	1495	I	2013-01-01
A61B	/	5	/	1451	I	2013-01-01
A61B	/	2560	/	0223	A	2013-01-01
Y02A	/	90	/	26	A	2018-01-01
A61B	/	5	/	1486	A	2013-01-01
A61B	/	5	/	14735	A	2013-01-01
A61B	/	5	/	1468	A	2013-01-01
A61B	/	5	/	14503	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	10	
/NAVIN NATNITHITHADHA/ Primary Examiner, Art Unit 3791	16 March 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20200319

Abbott Ex. 1003 - 816/875

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/690,977	Pryor et al.
	Examiner	**Art Unit**
	NAVIN NATNITHITHADHA	3791

INTERNATIONAL CLASSIFICATION				
CLAIMED				
A61B	/	5	/	1473
A61B	/	5	/	1486
A61B	/	5	/	1468
A61B	/	5	/	1495

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	10	
/NAVIN NATNITHITHADHA/ Primary Examiner, Art Unit 3791	16 March 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/690,977	Pryor et al.
	Examiner	**Art Unit**
	NAVIN NATNITHITHADHA	3791

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	21	10	30												
5	22														
2	23														
3	24														
4	25														
6	26														
7	27														
8	28														
9	29														

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	10	
/NAVIN NATNITHITHADHA/ Primary Examiner, Art Unit 3791	16 March 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20200319

Bibliographic Data

Application No: 16/690,977

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /NAVIN NATNITHITHADHA/ Examiner's Signature | /NN/ Initials

Title: SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/21/2019	600	3791	DEXCOM.053C22
RULE			

APPLICANTS

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Apurv Ullas Kamath San Diego, CA, UNITED STATES

Paul V. Goode JR., Round Rock, TX, UNITED STATES

James H. Brauker Addison, MI, UNITED STATES

CONTINUING DATA

This application is a CON of 16457628 06/28/2019

16457628 is a CON of 15787595 10/18/2017

15787595 is a CON of 15065623 03/09/2016 PAT 9918668

15065623 is a CON of 13607162 09/07/2012 PAT 9314196

13607162 is a CON of 12683755 01/07/2010 PAT 8611978

12683755 is a CON of 11373628 03/09/2006 PAT 7920906

11373628 has PRO of 60660743 03/10/2005

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

12/09/2019

STATE OR COUNTRY

UNITED STATES

ADDRESS

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DEXCOM, INC.

2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614
UNITED STATES

FILING FEE RECEIVED

$6,260

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3141	(DexCom).AS. OR ((Simpson NEAR2 Peter) OR (Brister NEAR2 Mark) OR (Wightlin NEAR2 Matthew)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/16 14:11
L2	0	(sensitivit$3 SAME (in ADJ2 vivo) SAME (in ADJ2 vitro) SAME correction SAME (different OR difference)).clm. AND L1	US-PGPUB; USPAT; USOCR	OR	ON	2020/03/16 14:11
L3	55048	(600/309,345-366).CCLS. OR (A61B5/14532 OR A61B5/68335 OR A61B5/0002 OR A61B5/0004 OR A61B5/05 OR A61B5/1411 OR A61B5/14503 OR A61B5/14507 OR A61B5/14514 OR A61B5/14546 OR A61B5/1473 OR A61B5/14735 OR A61B5/1486 OR A61B5/14865 OR A61B5/1495 OR A61B5/6801 OR A61B5/6833 OR A61B5/6848 OR A61B5/6849 OR A61B5/72 OR A61B17/3468 OR Y02A90/26 OR A61B5/14 OR A61B5/145 OR A61B5/1468 OR A61B5/150022 OR A61B2017/3492 OR A61B2560/0223 OR A61B2560/045 OR A61B2562/18 OR A61M5/14244 OR A61M5/1723 OR A61M2005/1585).CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:14
L4	0	(sensitivit$3 SAME (in ADJ2 vivo) SAME (in ADJ2 vitro) SAME correction SAME (different OR difference)).clm. AND L3	US-PGPUB; USPAT; USOCR	OR	ON	2020/03/16 14:14
L5	0	(sensitivit$3 SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro) SAME correction SAME (different OR difference)).clm. AND L1	US-PGPUB; USPAT; USOCR	OR	ON	2020/03/16 14:15
L6	0	(sensitivit$3 SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro) SAME correction SAME (different OR difference)).clm. AND 3	US-PGPUB; USPAT; USOCR	OR	ON	2020/03/16 14:15
L7	0	(sensitivit$3 SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro) SAME correction SAME (different OR difference)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:16
L8	0	(sensitivit$3 SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro)).clm. AND 1	US-PGPUB; USPAT; USOCR	OR	ON	2020/03/16 14:17
L9	0	(sensitivit$3 SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR	US-PGPUB; USPAT;	OR	ON	2020/03/16 14:18

Abbott Ex. 1003 - 821/875

		invitro)).clm. AND 3	USOCR			
L10	0	(sensitivit$3 SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro) SAME correction SAME (different OR difference) SAME (glucose OR analyte))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:21
L11	0	((sensitivit$3 WITH (different OR difference) WITH ((in ADJ2 vivo) OR invivo) WITH ((in ADJ2 vitro) OR invitro)) SAME (glucose OR analyte))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:23
L12	0	((sensitivit$3 WITH ((in ADJ2 vivo) OR invivo) WITH ((in ADJ2 vitro) OR invitro))) AND 1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:25
L13	1361	(DexCom).AS. OR ((Pryor NEAR2 Jack) OR (Kamath NEAR2 Apurv) OR (Goode NEAR2 Paul) OR (Brauker NEAR2 James)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2020/03/16 14:27
L14	2866	(DexCom).AS. OR ((Pryor NEAR2 Jack) OR (Kamath NEAR2 Apurv) OR (Goode NEAR2 Paul) OR (Brauker NEAR2 James)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:27
L15	0	((sensitivit$3 WITH ((in ADJ2 vivo) OR invivo) WITH ((in ADJ2 vitro) OR invitro))) AND 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:27
L16	0	((sensitivit$3 SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro))) AND 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:28
L17	331	sensitivit$3 AND (((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro)) AND 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:29
L18	0	sensitivit$3 AND (((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro) SAME (different OR difference OR correct$5)) AND 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:30

L19	426	sensitivit$3 AND ((in ADJ2 vivo) OR invivo) AND ((in ADJ2 vitro) OR invitro) AND 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:33
L20	0	((sensitivity OR sensitivities) SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro) SAME (different OR difference OR correct OR correcting OR correction OR corrections OR corrected)) AND 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:36
L21	0	((sensitivity OR sensitivities) SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro) SAME (different OR difference OR correct OR correcting OR correction OR corrections OR corrected)) AND 3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:36
L22	0	((sensitivity OR sensitivities) SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro) SAME (different OR difference OR correct OR correcting OR correction OR corrections OR corrected OR relationship)) AND 3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:38
L23	29	"11373628" OR "12683755" OR "13607162" OR "15065623" OR "15787595" OR "16457628" OR "16690977"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/16 14:41
L24	0	((sensitivity OR sensitivities) SAME ((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro)) AND 23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:41
L25	8	(((in ADJ2 vivo) OR invivo) SAME ((in ADJ2 vitro) OR invitro)) AND 23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:41
L26	29	((sensitivity OR sensitivities) SAME (vivo OR invivo) SAME (vitro OR invitro)) AND 23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:44
L27	29	((sensitivity OR sensitivities) SAME (vivo OR invivo) SAME (vitro OR invitro) SAME (different OR difference OR correct OR correcting OR correction OR corrections OR corrected OR relationship)) AND 23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:44
L28	0	((sensitivity OR sensitivities) SAME (vivo	US-PGPUB;	OR	ON	2020/03/16

		OR invivo) SAME (vitro OR invitro) SAME (different OR difference OR relationship) SAME (correct OR correcting OR correction OR corrections OR corrected)) AND 23	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:45
L29	1	((sensitivity OR sensitivities) SAME (vivo OR invivo) SAME (vitro OR invitro) SAME (different OR difference OR correct OR correcting OR correction OR corrections OR corrected OR relationship)).clm. AND 23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:46
L30	2	((sensitivity OR sensitivities) SAME (vivo OR invivo) SAME (vitro OR invitro) SAME (different OR difference OR correct OR correcting OR correction OR corrections OR corrected OR relationship)).clm. AND 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:47
L31	2	((sensitivity OR sensitivities) SAME (vivo OR invivo) SAME (vitro OR invitro) SAME (different OR difference OR correct OR correcting OR correction OR corrections OR corrected OR predict$4 OR relationship)).clm. AND 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:48
L32	29	((sensitivity OR sensitivities) SAME (vivo OR invivo) SAME (vitro OR invitro) SAME (different OR difference)) AND ((sensitivity OR sensitivities) SAME (correct OR correcting OR correction OR corrections OR corrected OR relationship)) AND 23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:50
L33	390	((sensitivity OR sensitivities) SAME (vivo OR invivo) SAME (vitro OR invitro) SAME (different OR difference)) AND ((sensitivity OR sensitivities) SAME (correct OR correcting OR correction OR corrections OR corrected OR relationship)) AND 3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:51
L34	63	33 NOT 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:51
L35	265	((sensitivity OR sensitivities) WITH (vivo OR invivo) WITH (vitro OR invitro) WITH (different OR difference)) AND ((sensitivity OR sensitivities) WITH (correct OR correcting OR correction OR corrections OR corrected OR relationship)) AND ((analyte OR glucose OR electrochemical) SAME (electrode OR bioelectrode OR sens$5 OR biosens$5 OR transducer OR biotransducer OR meter$3 OR biometer$3 OR detect$4 OR biodetect$4 OR analyz$3 OR bioanalyz$3 OR monitor$3) SAME (("in" ADJ2 vivo) OR invivo OR implant$6 OR bioimplant$4 OR transcutaneous$3 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 14:56

		cutaneous$3 OR percutaneous$3 OR subcutaneous$3 OR subdermal OR ((under OR below OR beneath OR penetrat$4 OR insert$5 OR through OR "within") NEAR5 (skin OR epiderm$5 OR derm$4))))				

3/16/2020 2:57:31 PM
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PTO/AIA/01 (06-12)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 16/457,628 filed on June 28, 2019.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Aarthi Mahalingam Date (Optional) 02/03/20

Signature: Aarthi M

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

APPLICATION DATA SHEET

Application Information

Application Number:	16/690977
Filing Date:	November 21, 2019
Application Type:	Regular
Subject Matter:	Utility
Title:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
Attorney Docket Number:	DEXCOM.053C22

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1

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State or Province:	CA
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Postal or Zip Code:	92121

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State or Province: CA

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3

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Suffix Name: Jr.

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City: San Diego

State or Province: CA

Country: US

Postal or Zip Code: 92121

4

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Middle Name: ~~H.~~

Family Name: ~~Brauker~~ Mahalingam

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State or Prov. of Residence: ~~MI~~ CA

Country of Residence: US

Street: c/o DexCom, Inc., 6340 Sequence Drive

City: San Diego
State or Province: CA
Country: US
Postal or Zip Code: 92121

5

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Country of Residence: US
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City: San Diego
State or Province: CA
Country: US
Postal or Zip Code: 92121

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Representative Information

Representative Customer Number: 68851

Abbott Ex. 1003 - 829/875

Dated: April 27, 2020

By:/Rose M. Thiessen/
Rose M. Thiessen
Registration No. 40,202
Registered Practitioner
Customer No. 68851
(858) 707-4000

32700942

Abbott Ex. 1003 - 830/875

Doc Code: R48.REQ
Document Description: Request under Rule 48 correcting inventorship

PTO/AIA/40 (04-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REQUEST FOR CORRECTION IN A PATENT APPLICATION RELATING TO INVENTORSHIP OR AN INVENTOR NAME, OR ORDER OF NAMES, OTHER THAN IN A REISSUE APPLICATION (37 CFR 1.48)

Application Number	16/690977
Filing Date	November 21, 2019
First Named Inventor	Jack Pryor
Art Unit	3791
Examiner Name	Natnithithadha, Navin
Practitioner Docket Number	DEXCOM.053C22

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Applicant hereby **requests that the inventorship be corrected or changed, or that the name of the inventor or a joint inventor, or the order of the names of joint inventors, be changed,** in the above-identified application. **Note**: 37 CFR 1.48 applies to any request to correct inventorship filed on or after September 16, 2012, regardless of the application filing date. **Do not submit this form after payment of the issue fee or if the application has been patented.** See 37 CFR 1.324 for correction of inventorship in a patent.

Please check the applicable box(es) below.

For a nonprovisional application:

☒ 1. This request is to correct or change the inventorship in a **nonprovisional** application (**under 37 CFR 1.48(a)**) and includes:

☒ An application data sheet (ADS) in accordance with 37 CFR 1.76(c) with the corrected or updated information shown with markings (*e.g.*, underlining for insertions, strikethrough for deletions). See the Manual of Patent Examining Procedure (MPEP) section 601.05(a) for information about filing an ADS in an application filed on/after September 16, 2012. For information about filing a Supplemental ADS in an application filed before September 16, 2012, see MPEP 601.05(b).

☒ The processing fee set forth in 37 CFR 1.17(i). $ 140

☒ An inventor is being added. An inventor's oath or declaration by any actual inventor who has not yet executed an oath or declaration is required (see 37 CFR 1.48(b)). See MPEP 602.01(a) for information about an inventor's oath or declaration for an application filed on/after September 16, 2012 (*e.g.*, form **PTO/AIA/01**). For information about an inventor's oath or declaration for an application filed before September 16, 2012 (*e.g.*, form **PTO/SB/01**), see MPEP 602.01(b).

☒ This request is being filed after the first Office action on the merits has been given or mailed (see 37 CFR 1.48(c) and 1.17(d)). Check one of the following:

☐ This request to correct or change the inventorship is due solely to the cancellation of claims in the application.

OR

☒ The fee set forth in 37 CFR 1.17(d) is due (in addition to the fee set forth in 37 CFR 1.17(i)). $ 600

This collection of information is required by 37 CFR 1.48. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Abbott Ex. 1003 - 831/875

PTO/AIA/40 (04-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REQUEST FOR CORRECTION IN A PATENT APPLICATION RELATING TO INVENTORSHIP OR AN INVENTOR NAME, OR ORDER OF NAMES, OTHER THAN IN A REISSUE APPLICATION (37 CFR 1.48)

☐ 2. This request is to correct or update the name of the inventor or a joint inventor, or the order of names of joint inventors, in a **nonprovisional** application (**under 37 CFR 1.48(f)**) and includes:

☐ An application data sheet in accordance with 37 CFR 1.76(c) identifying the complete inventive entity, including the corrected or updated name of the inventor, or the new order of names shown with markings (*e.g.*, underlining for insertions, strikethrough for deletions). See the MPEP 601.05(a) for information about filing an ADS in an application filed on/after September 16, 2012. For information about filing a Supplemental ADS in an application filed before September 16, 2012, see MPEP 601.05(b).

☐ The processing fee set forth in 37 CFR 1.17(i). $ _____

For a provisional application:

☐ This request is to change or correct the inventorship, or correct or update the name of the inventor or a joint inventor, in a **provisional** application (**under 37 CFR 1.48(d)**) and includes:

☐ **Attached hereto** is a document that is signed by a party set forth in 37 CFR 1.33(b) and identifies each inventor by his or her legal name, in the preferred order. Note: the document may be an application data sheet in accordance with 37 CFR 1.76(c) that identifies the changes with markings (underlining for insertions, strikethrough for deletions).

☐ The processing fee set forth in 37 CFR 1.17(q). $ _____

Fee Payment Information:

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 11-1410.

☒ Payment made via EFS-Web.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ Applicant* ☐ attorney or agent of record Registration number _____ ☒ attorney or agent acting under 37 CFR 1.34 Registration number 40202

Signature /Rose M. Thiessen/

Typed or printed name Rose M. Thiessen

Date 2020-04-27

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. *Juristic entities must be represented by a patent practitioner (See 37 CFR 1.31, applicable to any paper filed on or after September 16, 2012 that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below**.

☒ ** Total of 1 forms are submitted.

Abbott Ex. 1003 - 832/875

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	16690977
Filing Date:	21-Nov-2019
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Jack Pryor
Filer:	Rose M. Thiessen/Edgar Compton
Attorney Docket Number:	DEXCOM.053C22

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
CORRECTION OF INVENTORSHIP ON MERITS	1819	1	600	600
		Total in USD ($)		**740**

Electronic Acknowledgement Receipt

EFS ID:	39279578
Application Number:	16690977
International Application Number:	
Confirmation Number:	3197
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Jack Pryor
Customer Number:	68851
Filer:	Rose M. Thiessen/Wendy Castorena
Filer Authorized By:	Rose M. Thiessen
Attorney Docket Number:	DEXCOM.053C22
Receipt Date:	27-APR-2020
Filing Date:	21-NOV-2019
Time Stamp:	19:57:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$740
RAM confirmation Number	E20204QJ58107575
Deposit Account	111410
Authorized User	Wendy Castorena

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	053C12_DEC.pdf	99006 733688609fce357baa94203c203492d1d004a08f	no	1
Warnings:					
Information:					
2	Application Data Sheet	053C22_CORRADS.pdf	41614 dee0624693de2c8dfa30ec2241c0b70fa27c6181	no	4
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Req to correct/update/change appl name until pay issue fee	053C22_TRANS_2.PDF	173680 bdcec6df8935bc0d5e030c01c8ae1b3d1da07ca2	no	3
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	32445 470ae8b01192e6d2ae8c6c09eab2864e965ca3b3	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	346745		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/690,977	11/21/2019	Apurv Ullas Kamath	DEXCOM.053C22

CONFIRMATION NO. 3197

68851
KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

37 CFR 1.48 ACKNOWLEDGEMENT LETTER



Date Mailed: 04/30/2020

NOTICE OF ACCEPTANCE OF REQUEST UNDER 37 CFR 1.48(a)

This is in response to the applicant's request under 37 CFR 1.48(a) submitted on 04/27/2020.

The request under 37 CFR 1.48(a) to correct the inventorship, to correct or update the name of an inventor, or to correct the order of names of joint inventors is accepted.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/dtdinh/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/690,977	11/21/2019	3791	2120	DEXCOM.053C22	10	3

CONFIRMATION NO. 3197

UPDATED FILING RECEIPT

68851
KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

OC000000118598695

Date Mailed: 04/30/2020

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Apurv Ullas Kamath, San Diego, CA;
James H. Brauker, Addison, MI;
Paul V. Goode JR., Round Rock, TX;
Aarthi Mahalingam, San Diego, CA;
Jack Pryor, Ladera Ranch, CA;

Applicant(s)

DexCom, Inc., San Diego, CA;

Assignment For Published Patent Application

DexCom, Inc., San Diego, CA

Power of Attorney: The patent practitioners associated with Customer Number 68851

Domestic Priority data as claimed by applicant

This application is a CON of 16/457,628 06/28/2019 PAT 10610136
which is a CON of 15/787,595 10/18/2017
which is a CON of 15/065,623 03/09/2016 PAT 9918668
which is a CON of 13/607,162 09/07/2012 PAT 9314196
which is a CON of 12/683,755 01/07/2010 PAT 8611978
which is a CON of 11/373,628 03/09/2006 PAT 7920906
which claims benefit of 60/660,743 03/10/2005

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.

Abbott Ex. 1003 - 840/875

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

Preliminary Class

600

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

Abbott Ex. 1003 - 841/875

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor

community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

Abbott Ex. 1003 - 843/875

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 4

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack.
Art Unit	3791
Examiner Name	NATNITHITHADHA, Navin
Attorney Docket Number	DEXCOM.053C22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US-5342348	08-30-1994	KAPLAN; Aaron V.	
	002	US-6849463	02-01-2005	SANTINI JR.; John T. et al.	
	003	US-7778680	08-17-2010	GOODE JR.; Paul V. et al.	
	004	US-7860545	12-28-2010	SHULTS; Mark C. et al.	
	005	US-7875293	01-25-2011	SHULTS; Mark. et al.	
	006	US-8095197	01-10-2012	SANTINI JR.; John T. et al.	
	007	US-10376188	08-13-2019	SIMPSON; Peter C. et al.	
	008	US-10524703	01-07-2020	BRISTER; Mark. et al.	
	009	US-10610135	04-07-2020	KAMATH; Apurv Ullas. et al.	
	010	US-10610136	04-07-2020	KAMATH; Apurv Ullas. et al.	
	011	US-10610137	04-07-2020	KAMATH; Apurv Ullas. et al.	
	012	US-10617336	04-14-2020	KAMATH; Apurv Ullas. et al.	
	013	US-20200077928	03-12-2020	BRISTER; Mark. et al.	
	014	US-20200077932	03-12-2020	SIMPSON; Peter C. et al.	
	015	US-20200085350	03-19-2020	SIMPSON; Peter C. et al.	
	016	US-20200085351	03-19-2020	SIMPSON; Peter C. et al.	
	017	US-20200085355	03-19-2020	PRYOR; Jack. et al.	
	018	US-20200085356	03-19-2020	PRYOR; Jack. et al.	
	019	US-20200100713	04-02-2020	SIMPSON; Peter C. et al.	
	020	US-20200100714	04-02-2020	SIMPSON; Peter C. et al.	
	021	US-20200100715	04-02-2020	PRYOR; Jack. et al.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 4

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack.
Art Unit	3791
Examiner Name	NATNITHITHADHA, Navin
Attorney Docket Number	DEXCOM.053C22

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]–Number[4]–Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
		None				

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3 of 4

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack.
Art Unit	3791
Examiner Name	NATNITHITHADHA, Navin
Attorney Docket Number	DEXCOM.053C22

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author(in CAPITAL LETTERS),title of the article(when appropriate), title of the item (book,magazine,journal,serial,symposium,catalog,etc.),date,page(s),volume-issue number(s),publisher, city and/or country where published.	T[2]
	001	Extended European Search Report for Application No. 20156336.8 mailed April 23, 2020, 7 pages - Atty. Docket No. DEXCOM.051EPD19.	☐
	002	WILSON G., et al., "Biosensors For Real-time in Vivo Measurements," BIOSENSORS AND BIOELECTRONICS, ELSEVIER SCIENCE LTD, Vol. 20, No. 12, January 15, 2005, pp. 2388-2403.	☐

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
16/690,977	05/12/2020 05:26:33 PM ET	DEXCOM.053C22

Title of Invention

SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	3197	FILED BY	Alexa Terracin
PATENT CENTER #	60020838	FILING DATE	11/21/2019
CUSTOMER #	68851	FIRST NAMED INVENTOR	Apurv Kamath
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Rose Thiessen

Documents

TOTAL DOCUMENTS: 4

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
051EPD19_EESR_20200423.pdf		7	Other Reference-Patent/App/Search documents	171 KB
Wilson_2005_Biosensors.pdf		16	Non Patent Literature	3039 KB
DEX053C22_20200512.pdf		4	-	61 KB
DEX053C22_20200512-IDS.pdf	(1-3)	3	Information Disclosure Statement (IDS) Form (SB08)	50 KB
DEX053C22_20200512-TRAN.LET.pdf	(4-4)	1	Transmittal Letter	21 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
051EPD19_EESR_20200423.pdf	9AC9FFD4544C16BF61BF0F124CA8AD5618D70C72087B467A98C8FE78F1AC99ABFD51DDFB3178E2BD37A90E59D2AA7B8B717E6CA18D482A1E8E432ABAA2B01CD8
Wilson_2005_Biosensors.pdf	1B925AABFE3EDFA4FE473339498EB93155A697A0AAB4FD67F122894B51FC1019B1381DDEEAE52F19BFA40AC8387F8A8619D545A3046F3FD9FCE271BC3577A0A2
DEX053C22_20200512.pdf	BAF3C9A69A550B77563001C325F3F77BF5BCEE530E82FE7F9C1DD8D8D2170EB160F7D4E20A7A389580C3568A925F1E0945FF400F53B716C3B456153C070AE1F3
DEX053C22_20200512-IDS.pdf	FE11C7EB979D45E5A3758465162 6E73339469DE029F9417F09CC6E02BCE7570C90DD1140C131BB4AB094A7893CD07AEF606A929AAB90842A7FB372B095DC178D
DEX053C22_20200512-TRAN.LET.pdf	7649804BC25B073039FD9171FEE7737E5D8C3655B7E95B043346D5DEAF13C390F8E483CD0132C39CF1D0BBE59D7B26AAAA22F7524192DCCCF71A239D248101BF

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4 of 4

Complete if Known	
Application Number	16690977
Filing Date	11-21-2019
First Named Inventor	PRYOR; Jack.
Art Unit	3791
Examiner Name	NATNITHITHADHA, Navin
Attorney Docket Number	DEXCOM.053C22

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith. Please place these references in the file in accordance with 37 C.F.R. § 1.97(i).

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Rose M. Thiessen/	Date (YYYY-MM-DD)	2020-05-12
Name/Print	Rose M. Thiessen	Registration Number	40,202

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

32803778:abt

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/690,977	11/21/2019	Apurv Ullas Kamath	DEXCOM.053C22	3197

7590 05/15/2020

KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER	
NATNITHITHADHA, NAVIN	

ART UNIT	PAPER NUMBER
3791	

NOTIFICATION DATE	DELIVERY MODE
05/15/2020	ELECTRONIC

NOTICE OF NON-COMPLIANT INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement (IDS) filed ***5.12.2020*** in the above-identified application fails to meet the requirements of 37 CFR 1.97(d) for the reason(s) specified below. Accordingly, the IDS will be placed in the file, but the information referred to therein has not been considered.

The IDS is not compliant with 37 CFR 1.97(d) because:

☑ The IDS lacks a statement as specified in 37 CFR 1.97(e).

☐ The IDS lacks the fee set forth in 37 CFR 1.17(p).

☐ The IDS was filed after the issue fee was paid. Applicant may wish to consider filing a petition to withdraw the application from issue under 37 CFR 1.313(c) to have the IDS considered. See MPEP 1308.

/ N.HORNE /
571-272-4200 or 1-888-786-0101
For: Application Assistance Unit
Office of Data Management

FORM PTOM327-B (Rev. 02/08)

Abbott Ex. 1003 - 850/875

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor	:	Jack Pryor
App. No.	:	16/690977
Filed	:	November 21, 2019
For	:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
Examiner	:	Natnithithadha, Navin
Art Unit	:	3791
Conf. No.	:	3197

COMMENTS ON EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

It is recognized that in accordance with M.P.E.P. § 1302.14, the Examiner's reasons for allowance need not set forth all of the details as to why the claims are allowed. In the above-referenced application, it is not conceded that the Examiner's stated reasons for allowance are the only reasons for which the claims are allowable. The Examiner's reasons for allowance indicate that particular claim elements are not disclosed or suggested by the prior art of record, yet the claims may be patentable for other reasons as well, including the inventive combination of all of the recited claim elements. It is not conceded that the specific limitations identified by the Examiner are necessary to distinguish the art of record or to satisfy the requirements of 35 U.S.C. § 112. Moreover, the Examiner does not assert, and it would not be conceded, that the Examiner's reasons have any bearing on the patentability of claims in any other applications directed to the disclosed subject matter.

In addition, each dependent claim stands on its own and may be allowable on its own merits. In particular, each dependent claim may be allowable on the basis of a combination of some of the features recited in the dependent claim and its base claim(s), which combination of features may not include all of the limitations identified in the Examiner's reasons for allowance.

Abbott Ex. 1003 - 851/875

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: June 2, 2020

By: /Rose M. Thiessen/
Rose M. Thiessen
Registration No. 40,202
Attorney of Record
(858) 707-4000

32515143

Abbott Ex. 1003 - 852/875

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

68851 7590 03/25/2020

KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/690,977	11/21/2019	Jack Pryor	DEXCOM.053C22	3197

TITLE OF INVENTION: SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	06/25/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
NATNITHITHADHA, NAVIN	3791	600-365000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Knobbe Martens
2 Olson & Bear, LLP
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: DexCom, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): San Diego, CA

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 11-1410

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Rose M. Thiessen/ Date June 2, 2020

Typed or printed name Rose M. Thiessen Registration No. 40,202

Abbott Ex. 1003 - 853/875

Electronic Patent Application Fee Transmittal

Application Number:	16690977
Filing Date:	21-Nov-2019
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Apurv Ullas Kamath
Filer:	Rose M. Thiessen/Edgar Compton
Attorney Docket Number:	DEXCOM.053C22

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1000**

Electronic Acknowledgement Receipt

EFS ID:	39606519
Application Number:	16690977
International Application Number:	
Confirmation Number:	3197
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Apurv Ullas Kamath
Customer Number:	68851
Filer:	Rose M. Thiessen/Melanie Terrazas
Filer Authorized By:	Rose M. Thiessen
Attorney Docket Number:	DEXCOM.053C22
Receipt Date:	02-JUN-2020
Filing Date:	21-NOV-2019
Time Stamp:	19:14:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1000
RAM confirmation Number	E202062J14414907
Deposit Account	111410
Authorized User	Melanie Terrazas

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Post Allowance Communication - Incoming	053C22_COMMENTS.pdf	21822 8beffc633403e4e0f5b6a949f034ea1fe5b41fa5	no	2
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	053C22_ISSUFEE.pdf	197888 5c64c85a3cd9e492e3f046ae75376bac6a7a5d7c	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30440 584467886d3f1d9f4f0e05dcdb8f934f9ea68d0e	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	250150		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/690,977	07/14/2020	10709364	DEXCOM.053C22	3197

68851 7590 06/24/2020

KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Apurv Ullas Kamath, San Diego, CA;
DexCom, Inc., San Diego, CA;
James H. Brauker, Addison, MI;
Paul V. Goode JR., Round Rock, TX;
Aarthi Mahalingam, San Diego, CA;
Jack Pryor, Ladera Ranch, CA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Electronic Patent Application Fee Transmittal

Application Number:	16690977
Filing Date:	21-Nov-2019
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Apurv Ullas Kamath
Filer:	Rose M. Thiessen/Edgar Compton
Attorney Docket Number:	DEXCOM.053C22

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
CERTIFICATE OF CORRECTION	1811	1	150	150

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**150**

Electronic Acknowledgement Receipt

EFS ID:	40433099
Application Number:	16690977
International Application Number:	
Confirmation Number:	3197
Title of Invention:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
First Named Inventor/Applicant Name:	Apurv Ullas Kamath
Customer Number:	68851
Filer:	Rose M. Thiessen/Wendy Castorena
Filer Authorized By:	Rose M. Thiessen
Attorney Docket Number:	DEXCOM.053C22
Receipt Date:	31-AUG-2020
Filing Date:	21-NOV-2019
Time Stamp:	18:33:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$150
RAM confirmation Number	E20208UI34226431
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Authorized User	Wendy Castorena

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	COC_REQ.pdf	40506 06875dc909ac89591fa569cf538075aedadb9a13	no	5
Warnings:					
Information:					
2	Transmittal Letter	COC.pdf	16628 00ee9e15b7df46d4cdc8d9a129246cc3193e25b5	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30573 e075514937e52f558f359d54392ff7d98048a00a	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	87707		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

REQUEST FOR CERTIFICATE OF CORRECTION

First Inventor	:	Apurv Ullas Kamath
App. No.	:	16/690977
Filed	:	November 21, 2019
Patent No.	:	10,709,364
Issue Date	:	July 14, 2020
Title	:	SYSTEM AND METHODS FOR PROCESSING ANALYTE SENSOR DATA FOR SENSOR CALIBRATION
Conf. No.	:	3197

Commissioner for Patents
Office of Data Management
Attention: Certificates of Correction Branch
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Enclosed for filing is a Certificate of Correction in connection with the above-identified patent.

Some of the errors cited in the Certificate of Correction appear to have been incurred through the fault of the PTO (see 35 USC § 254, 37 CFR § 1.322, and MPEP § 1480). However, because this may not apply to each item in the Certificate of Correction, the $150 fee under 37 CFR § 1.20(a) is submitted herewith. Please charge any additional fees to our Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: August 31, 2020

By: /Rose M. Thiessen/
Rose M. Thiessen
Registration No. 40,202
Registered Practitioner
(858) 707-4000

33425336

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,709,364
APPLICATION NO. : 16/690977
ISSUE DATE : July 14, 2020
INVENTOR(S) : Apurv Ullas Kamath

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On page 7, Col. 1, field (56), U.S. Patent Documents, line 19, delete "Roper" and insert --Roeper--.

On page 9, Col. 2, field (56), U.S. Patent Documents, line 59, delete "Duchonet" and insert --Duchonet--.

On page 22, Col. 1, field (56), Other Publications, line 12, delete "Actan," and insert --Acta,--.

On page 22, Col. 1, field (56), Other Publications, line 43, delete "Immoblized" and insert --Immobilized--.

On page 22, Col. 2, field (56), Other Publications, line 5, delete "Biosenors" and insert --Biosensors--.

On page 22, Col. 2, field (56), Other Publications, line 25, delete "Chemica" and insert --Chimica--.

On page 22, Col. 2, field (56), Other Publications, line 42, delete "Chemica" and insert --Chimica--.

On page 23, Col. 1, field (56), Other Publications, line 43, delete "SurFACTS in Biomaterials," and insert --SurFACES in Biomaterials,--.

On page 23, Col. 2, field (56), Other Publications, line 57, delete "Biollogy" and insert --Biology--.

On page 23, Col. 2, field (56), Other Publications, line 66, delete "Self Monitoring and insert --Self-Monitoring--.

On page 24, Col. 2, field (56), Other Publications, line 1, delete "1-Butyrul-Glycerol:" and insert --1-Butyryl-Glycerol:--.

On page 24, Col. 2, field (56), Other Publications, line 22, delete "El-Sa'ad" and insert --El-Saad--.

On page 25, Col. 1, field (56), Other Publications, line 37, delete "Biosonsors" and insert --Biosensors--.

On page 25, Col. 1, field (56), Other Publications, line 45, delete "EnzymeTM" and insert --Enzyme™--.

MAILING ADDRESS OF SENDER:

Rose M. Thiessen
KNOBBE, MARTENS, OLSON & BEAR, LLP
2040 Main Street, 14th Floor
Irvine, California 92614

DOCKET NO. DEXCOM.053C22

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,709,364
APPLICATION NO. : 16/690977
ISSUE DATE : July 14, 2020
INVENTOR(S) : Apurv Ullas Kamath

On page 27, Col. 1, field (56), Other Publications, line 2, delete "519pages." and insert --519 pages.--.

On page 28, Col. 1, field (56), Other Publications, line 65, delete "Sensivity" and insert --Sensitivity--.

On page 30, Col. 1, field (56), Other Publications, line 35, delete "Coimmoblized" and insert --Coimmobilized--.

On page 30, Col. 2, field (56), Other Publications, line 68, delete "" Hydrogels" and insert --"Hydrogels--.

On page 30, Col. 2, field (56), Other Publications, line 69, delete "Eng," and insert --Eng.--.

On page 32, Col. 1, field (56), Other Publications, line 2, delete "Glucoseoxidase" and insert --Glucose oxidase--.

On page 32, Col. 1, field (56), Other Publications, line 50, delete "Moatti-Sirat.," and insert --Moatti-Sirat D.,--.

On page 32, Col. 1, field (56), Other Publications, line 66, delete "Biochimica" and insert --Biochimica et--.

On page 33, Col. 2, field (56), Other Publications, line 55, delete "datd" and insert --dated--.

On page 34, Col. 1, field (56), Other Publications, line 61, delete "Decarbozylase" and insert --Decarboxylase--.

On page 34, Col. 2, field (56), Other Publications, line 41, delete "Hypogylcemia" and insert --Hypoglycemia--.

On page 34, Col. 2, field (56), Other Publications, line 68, delete "Quinn C.P.," and insert --Quinn C.A.P.,--.

On page 35, Col. 1, field (56), Other Publications, line 38, delete ""Subcutaenous" and insert --"Subcutaneous--.

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,709,364
APPLICATION NO. : 16/690977
ISSUE DATE : July 14, 2020
INVENTOR(S) : Apurv Ullas Kamath

On page 36, Col. 1, field (56), Other Publications, line 52, delete "al., "A" and insert --al., "A --.

On page 36, Col. 1, field (56), Other Publications, line 65, delete "Hypo-Hyperglycemia" and insert --Hypo/Hyperglycemia --.

On page 36, Col. 2, field (56), Other Publications, line 53, delete "J.Exp.Med," and insert --J. Exp. Med,--.

On page 37, Col. 1, field (56), Other Publications, line 35, delete "Gluco Watch®" and insert --GlucoWatch®--.

On page 37, Col. 2, field (56), Other Publications, line 22, delete "Tranducers," and insert --Transducers,--.

On page 37, Col. 2, field (56), Other Publications, line 64, delete "Dogs:" and insert --Dogs.--.

In sheet 34 of 48, FIG. 22A, (Along Y-axis), line 1, delete "SENSPR" and insert --SENSOR--.

In sheet 44 of 48, FIG. 29, line 13, delete "dotx." and insert --dots.--.

Col. 6, line 16, delete "sensor" and insert --sensor.--.

Col. 7, line 57, delete "andrenostenedione;" and insert --androstenedione;--.

Col. 7, line 61, delete "hydroxy-cholic" and insert --hydroxycholic--.

Col. 8, line 2, delete "HCMV," and insert --HCMV, HIV-1,--.

Col. 8, lines 4-5, delete "deoxycorti sol);" and insert --deoxycortisol);--.

Col. 8, line 6, delete "diptheria/tetanus" and insert --diphtheria/tetanus--.

Col. 8, line 12, delete "perioxidase;" and insert --peroxidase;--.

Col. 8, lines 21-22, delete "sissomicin;" and insert --sisomicin;--.

Col. 8, line 26, delete "Giardia duodenalisa," and insert --Giardia duodenalis,--.

Col. 8, line 33, delete "Trepenoma pallidium," and insert --Treponema pallidum,--.

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2040 Main Street, 14th Floor
Irvine, California 92614

DOCKET NO. DEXCOM.053C22

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,709,364
APPLICATION NO. : 16/690977
ISSUE DATE : July 14, 2020
INVENTOR(S) : Apurv Ullas Kamath

Col. 8, line 34, delete "stomatis" and insert --stomatitis--.

Col. 8, line 55, delete "(barbituates," and insert --(barbiturates,--.

Col. 9, line 4, delete "(FHIAA)." and insert --(5-HIAA).--.

Col. 11, line 22, delete "by product," and insert --byproduct,--.

Col. 13, line 41, delete "the a" and insert --the--.

Col. 13, line 49, delete "can not" and insert --cannot--.

Col. 15, line 56, delete "Sensory" and insert --SensorA--.

Col. 16, line 16, delete "(e.g.," and insert --e.g.,--.

Col. 25, line 25, delete "FIG." and insert --FIGS.--.

Col. 28, line 13, delete "disposed of" and insert --disposed off--.

Col. 28, lines 55-56, delete "U.S. Pat. No. 6,424,847 to Mastrototaro et al., for example." and insert --for example.--.

Col. 29, line 2, delete "can by" and insert --can be--.

Col. 29, line 47, delete "Bellafonte, Pa." and insert --Bellefonte, PA.--.

Col. 36, lines 42-43, delete "methyl dopa," and insert --methyldopa,--.

Col. 40, line 37, delete "5:207-21 (1982))." and insert --5:207-21(1982)).--.

Col. 42, line 16, delete "interferant" and insert --interferent--.

Col. 43, line 29, delete "some time" and insert --sometime--.

Col. 44, line 52, delete "et." and insert --et--.

Col. 44, line 64, delete "a" and insert --α--.

Col. 45, lines 49-50, delete "New York))." and insert --New York.--.

Col. 46, line 29, delete "hydroxyapeptite," and insert --hydroxyapatite,--.

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Irvine, California 92614

DOCKET NO. DEXCOM.053C22

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,709,364
APPLICATION NO. : 16/690977
ISSUE DATE : July 14, 2020
INVENTOR(S) : Apurv Ullas Kamath

Col. 46, line 31, delete "nintinol," and insert --nitinol,--.

Col. 50, line 21, delete "and or" and insert --and/or--.

Col. 54, line 22, delete "disposed of" and insert --disposed off--.

Col. 57, line 30, delete "pad" and insert --pad.--.

Col. 60, line 17, delete "disposed of" and insert --disposed off--.

Col. 61, line 28, delete "and or" and insert --and/or--.

Col. 70, line 39, delete "U.S" and insert --U.S.--.

Col. 71, line 66, delete "mealtime," and insert --meal time,--.

Col. 82, line 20, delete "scaling" and insert --sealing--.

Col. 90, line 21, delete ""SHBG"" and insert --"SMBG"--.

33424286

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DOCKET NO. DEXCOM.053C22

Abbott Ex. 1003 - 868/875

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/690,977	11/21/2019	Apurv Ullas Kamath	DEXCOM.053C22	3197

68851 7590 09/18/2020

KNOBBE, MARTENS, OLSON & BEAR, LLP
DEXCOM, INC.
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER	
NATNITHITHADHA, NAVIN	

ART UNIT	PAPER NUMBER
3791	

NOTIFICATION DATE	DELIVERY MODE
09/18/2020	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com
jayna.cartee@knobbe.com

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Patent No.: 10709364
Issue Date: 07/14/2020
Appl. No.: 16/690,977
Filed: 11/21/2019

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed 31 August 2020.

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)
☐ Approved ☑ Approved in Part ☐ Denied

Comments: All corrections have been approved except for the below:
Page 4, correction 10 ("disposed of" to --disposed off-- denied)
Page 5, correction 3 and 5 ("disposed of" to --disposed off-- denied)

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☐ This is a decision on the petition filed ____ to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed ____. In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby: ☐ Granted ☐ Dismissed

Comment: ____

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/JACQUELINE CHENG/
Supervisory Patent Examiner, Art Unit 3791
Technology Center 3700
Phone: (571)272-5596

Certificates of Correction Branch email: CustomerServiceCoC@uspto.gov CoC Central Phone Number: (703) 756-1814

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 10,709,364 B2
APPLICATION NO. : 16/690977
DATED : July 14, 2020
INVENTOR(S) : Apurv Ullas Kamath et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

On page 7, Column 1, item (56), U.S. Patent Documents, Line 19, delete "Roper" and insert --Roeper--.

On page 9, Column 2, item (56), U.S. Patent Documents, Line 59, delete "Duchonet" and insert --Duchon et--.

On page 22, Column 1, item (56), Other Publications, Line 12, delete "Actan," and insert --Acta,--.

On page 22, Column 1, item (56), Other Publications, Line 43, delete "Immoblized" and insert --Immobilized--.

On page 22, Column 2, item (56), Other Publications, Line 5, delete "Biosenors" and insert --Biosensors--.

On page 22, Column 2, item (56), Other Publications, Line 25, delete "Chemica" and insert --Chimica--.

On page 22, Column 2, item (56), Other Publications, Line 42, delete "Chemica" and insert --Chimica--.

On page 23, Column 1, item (56), Other Publications, Line 43, delete "SurFACTS in Biomaterials," and insert --SurFACES in Biomaterials,--.

On page 23, Column 2, item (56), Other Publications, Line 57, delete "Biollogy" and insert --Biology--.

On page 23, Column 2, item (56), Other Publications, Line 66, delete "Self Monitoring" and insert --Self-Monitoring--.

Signed and Sealed this
Sixth Day of October, 2020

Andrei Iancu
Director of the United States Patent and Trademark Office

On page 24, Column 2, item (56), Other Publications, Line 1, delete "1-Butyrul-Glycerol:" and insert --1-Butyryl-Glycerol:--.

On page 24, Column 2, item (56), Other Publications, Line 22, delete "El-Sa'ad" and insert --El-Saad--.

On page 25, Column 1, item (56), Other Publications, Line 37, delete "Biosonsors" and insert --Biosensors--.

On page 25, Column 1, item (56), Other Publications, Line 45, delete "EnzymeTM" and insert --Enzyme™--.

On page 27, Column 1, item (56), Other Publications, Line 2, delete "519pages." and insert --519 pages.--.

On page 28, Column 1, item (56), Other Publications, Line 65, delete "Sensivity" and insert --Sensitivity--.

On page 30, Column 1, item (56), Other Publications, Line 35, delete "Coimmoblized" and insert --Coimmobilized--.

On page 30, Column 2, item (56), Other Publications, Line 68, delete ""Hydrogels" and insert --"Hydrogels--.

On page 30, Column 2, item (56), Other Publications, Line 69, delete "Eng," and insert --Eng.--.

On page 32, Column 1, item (56), Other Publications, Line 2, delete "Glucoseoxidase" and insert --Glucose oxidase--.

On page 32, Column 1, item (56), Other Publications, Line 50, delete "Moatti-Sirat.," and insert --Moatti-Sirat D.,--.

On page 32, Column 1, item (56), Other Publications, Line 66, delete "Biochimica" and insert --Biochimica et--.

On page 33, Column 2, item (56), Other Publications, Line 55, delete "datd" and insert --dated--.

On page 34, Column 1, item (56), Other Publications, Line 61, delete "Decarbozylase" and insert --Decarboxylase--.

On page 34, Column 2, item (56), Other Publications, Line 41, delete "Hypogylcemia" and insert --Hypoglycemia--.

On page 34, Column 2, item (56), Other Publications, Line 68, delete "Quinn C.P.," and insert --Quinn C.A.P.,--.

On page 35, Column 1, item (56), Other Publications, Line 38, delete ""Subcutaenous" and insert --"Subcutaneous--.

On page 36, Column 1, item (56), Other Publications, Line 52, delete "al.,"A" and insert --al., "A--.

On page 36, Column 1, item (56), Other Publications, Line 65, delete "Hypo-Hyperglycemia" and insert --Hypo/Hyperglycemia--.

On page 36, Column 2, item (56), Other Publications, Line 53, delete "J.Exp.Med," and insert --J. Exp. Med,--.

On page 37, Column 1, item (56), Other Publications, Line 35, delete "Gluco Watch®" and insert --GlucoWatch®--.

On page 37, Column 2, item (56), Other Publications, Line 22, delete "Tranducers," and insert --Transducers,--.

On page 37, Column 2, item (56), Other Publications, Line 64, delete "Dogs:" and insert --Dogs.--.

In the Drawings

In sheet 34 of 48, FIG. 22A, (Along Y-axis), Line 1, delete "SENSPR" and insert --SENSOR--.

In sheet 44 of 48, FIG. 29, Line 13, delete "dotx." and insert --dots.--.

In the Specification

Column 6, Line 16, delete "sensor" and insert --sensor.--.

Column 7, Line 57, delete "andrenostenedione;" and insert --androstenedione;--.

Column 7, Line 61, delete "hydroxy-cholic" and insert --hydroxycholic--.

Column 8, Line 2, delete "HCMV," and insert --HCMV, HIV-1,--.

Column 8, Lines 4-5, delete "deoxycorti sol);" and insert --deoxycortisol);--.

Column 8, Line 6, delete "diptheria/tetanus" and insert --diphtheria/tetanus--.

Column 8, Line 12, delete "perioxidase;" and insert --peroxidase;--.

Column 8, Lines 21-22, delete "sissomicin;" and insert --sisomicin;--.

Column 8, Line 26, delete "Giardia duodenalisa," and insert --Giardia duodenalis,--.

Column 8, Line 33, delete "Trepenoma pallidium," and insert --Treponema pallidum,--.

Column 8, Line 34, delete "stomatis" and insert --stomatitis--.

Column 8, Line 55, delete "(barbituates," and insert --(barbiturates,--.

Column 9, Line 4, delete "(FHIAA)." and insert --(5-HIAA).--.

Column 11, Line 22, delete "by product," and insert --byproduct,--.

Column 13, Line 41, delete "the a" and insert --the--.

Column 13, Line 49, delete "can not" and insert --cannot--.

Column 15, Line 56, delete "Sensory" and insert --SensorA--.

Column 16, Line 16, delete "(e.g.," and insert --e.g.,--.

Column 25, Line 25, delete "FIG." and insert --FIGS.--.

Column 28, Lines 55-56, delete "U.S. Pat. No. 6,424,847 to Mastrototaro et al., for example." and insert --for example.--.

Column 29, Line 2, delete "can by" and insert --can be--.

Column 29, Line 47, delete "Bellafonte, Pa." and insert --Bellefonte, PA.--.

Column 36, Lines 42-43, delete "methyl dopa," and insert --methyldopa,--.

Column 40, Line 37, delete "5:207-21 (1982))." and insert --5:207-21(1982)).--.

Column 42, Line 16, delete "interferant" and insert --interferent--.

Column 43, Line 29, delete "some time" and insert --sometime--.

Column 44, Line 52, delete "et." and insert --et--.

Column 44, Line 64, delete "a" and insert --α--.

Column 45, Lines 49-50, delete "New York))." and insert --New York.--.

Column 46, Line 29, delete "hydroxyapeptite," and insert --hydroxyapatite,--.

Column 46, Line 31, delete "nintinol," and insert --nitinol,--.

Column 50, Line 21, delete "and or" and insert --and/or--.

Column 57, Line 30, delete "pad" and insert --pad.--.

Column 61, Line 28, delete "and or" and insert --and/or--.

Column 70, Line 39, delete "U.S" and insert --U.S.--.

Column 71, Line 66, delete "mealtime," and insert --meal time,--.

Column 82, Line 20, delete "scaling" and insert --sealing--.

Column 90, Line 21, delete ""SHBG"" and insert --"SMBG"--.