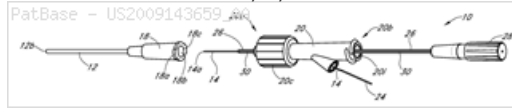


1) Family number: 43351005 (US2009143659A)

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Title: ANALYTE SENSOR**Abstract:** Systems and methods of use for continuous analyte measurement of a host's vascular system are provided. In some embodiments, a continuous glucose measurement system includes a vascular access device, a sensor and sensor electronics, the system being configured for insertion into communication with a host's circulatory system.**Classifications:****International (ipc 8-9):** A61B5/00 A61B5/05 A61B5/145
A61B5/1486 A61B5/1495 C12Q1/00 (Advanced/Invention);
A61M5/14 A61M5/142 A61M5/168 A61M5/172
G06F19/00 (Advanced/Non-invention);
A61B5/145 (Core/Invention)**CPC:** G16H40/40 Y02A90/26 G16H10/40 G16H20/17 A61B5/0031 A61B5/14532 A61B5/14539 A61B5/14542 A61B5/14546
A61B5/14865 A61B5/1495 A61B5/412 A61B5/4839 A61B5/6848 A61B5/6849 A61B5/7275 A61B5/743 A61B2560/0223
A61B2560/04 A61B2562/085 A61M5/14 A61M5/16804 A61M5/1723 A61M2005/14296 A61M2230/201 C12Q1/001 C12Q1/006
G06F19/3468**European:** A61B5/00B8 A61B5/00B9 A61B5/145G A61B5/145N A61B5/145P A61B5/1486B A61B5/1495 A61B5/41D
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S06F19/34A S06F19/34A1 S06F19/34C S06F19/34L**US:** 600/345 600/345P 600/347 600/365**Family:**

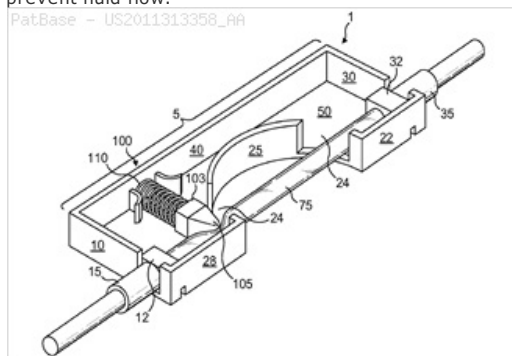
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Priority:

US20030633367	20030801	US20030527323P	20031205	US20040587787P	20040713
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US20070014398P	20071217	US20080258345	20081024	US20080267542	20081107

Probable Assignee: DEXCOM INC**Assignee(s):** (std): DEXCOM INC ; YANG RICHARD C ; LI YING ; KAMATH APURV ULLAS**Inventor(s):** (std): KAMATH APURV ULLAS ; LI YING ; YANG RICHARD C**Agent(s):** KNOBBE MARTENS OLSEN AND BEAR LLP**2) Family number: 46423036** (US2011313358A)

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Title: INFUSION PUMP CASSETTE WITH ANTI-FREE-FLOW VALVE MECHANISM**Abstract:** A cassette (1) that is insertable into an infusion pump for delivery of a fluid to a subject that has a housing with two ends for holding flexible tubing (75) through which the fluid is directed. The housing has an open area exposing the tubing, which engages a pumping mechanism when inserted into an infusion pump. An anti-flow valve mechanism (100) associated with the tubing or the cassette and present either in, on or near the housing is made up of a piston (103/105) and spring (110), where the spring biases the piston against the tubing to prevent fluid flow.**Classifications:****International (ipc 8-9):** A61M A61M1/00 A61M31/00 A61M39/02
A61M39/28 A61M5/142 A61M5/168 F04B43/12 (Advanced/Invention);
A61M39/28 F04B43/06 F04B43/08 F04B43/12 (Advanced/Non-invention);
A61M39/00 A61M5/142 (Core/Invention);
A61M (Subclass/Invention)**International (ipc 1-7):** A61M39/28 A61M5/142**CPC:** A61M5/14228 A61M5/14232 A61M39/281 A61M2205/128
A61M2205/14 A61M2205/6045 F04B43/12**European:** A61M39/28A A61M5/142G6 A61M5/142G8 K61M205/12V
K61M205/14 K61M205/60H**US:** 1/1 417/476 417/477.2 604/151 604/151P 604/153 604/246
604/246S 604/30**Family:**

Publication number	Publication date	Application number	Application date
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EP2398533 A1	20111228	EP20100702371	20100122
EP2398533 B1	20140409	EP20100702371	20100122
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HK1162152 A1	20120824	HK20120102716	20120319
HK1162363 A1	20120831	HK20120102708	20120319
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US2012130309 AA	20120524	US20100147111	20100122
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US9238101 BB	20160119	US20100147099	20100122
WO10088143 A1	20100805	WO2010US21721	20100122
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ZA201106333 A	20130227	ZA20110006333	20110829
ZA201106334 A	20130227	ZA20110006334	20110829

Priority:

US20090148830P 20090130 US20090148863P 20090130 EP20100702371 20100122
US20100147111 20100122 WO2010US21721 20100122 US20100147099 20100122
WO2010US21727 20100122

Probable Assignee: NESTEC SA

Assignee(s): (std): HIGHLEY BRIAN ; NESTEC SA ; SERALAATHAN HARIHARESAN ; NESTEK SA ; BRIAN HIGHLEY ; HARIHARESAN SERALAATHAN

Assignee(s): NESTEC S A

Inventor(s): (std): BRIAN HIGHLEY ; HARIHARESAN SERALAATHAN ; HIGHLEY BRIAN ; SERALAATHAN HARIHARESAN

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; MITSCHERLICH PATENT U RECHTSANWAELTE PARTMBB; RUPP CHRISTIAN; ISERN JORGE; ZHONGZI IP; K AND L GATES LLP; LOBEL GARY M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 29378058 (US6142008A)

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Title: AIR BUBBLE SENSOR

Abstract: A system and a method for detecting the presence of air bubbles in an intravenous (IV) line supplying a medicinal liquid to a patient. An air bubble sensor includes an ultrasonic transmitter acoustically coupled to an ultrasonic receiver to detect the presence of a gas (e.g., air) in a portion of a tube comprising the IV line. The transmitter and receiver are mounted on pivoting transducers that are disposed on opposite sides of the tube. A spring biases the transducers inwardly toward each other so that the transmitter and receiver contact opposite sides of the tubing. This assembly automatically accommodates different sizes of tubing and tubing of a relatively wide range of stiffness. The tube is connected to a disposable pumping cassette that is engaged in a pump chassis on which the transducers are pivotally mounted. A user actuated plunger on the pump chassis is depressed to cause the transmitter and receiver to move away from the tube when the pumping cassette is removed from or inserted into the interior of the pump chassis. A controller precisely monitors the flow of medicinal liquid through the tubing to detect the size of gas bubbles and total volume of gas infused. The controller automatically compensates for minor contamination of the exterior surface of the tube, e.g., if the surface is wet with a liquid.

Classifications:

International (ipc 8-9): A61M5/00 A61M5/142 A61M5/36 G01N29/02 G01N29/032 G01N29/22 (Advanced/Invention);

A61M5/00 (Advanced/Non-invention);

A61M5/00 A61M5/36 G01N29/02 G01N29/22 (Core/Invention)

International (ipc 1-7): A61M5/00 A61M5/142 A61M5/36 F04B4/308 F04B43/08 G01N29/02

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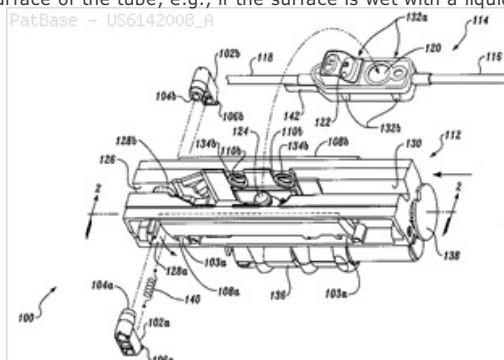
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European: A61M5/142G4 A61M5/36B G01N29/02 G01N29/22F

K61M205/12 S01N291/024E S01N291/102

US: 128/DIG.13 417/477.2 604/122 604/65 604/67 73/1.83 73/19.03 73/190.3

PatBase - US6142008_A



Family:

Publication number	Publication date	Application number	Application date
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AU759455 B2	20030417	AU19990044224	19990604
CA2334295 AA	20001205	CA19992334295	19990604
CA2334295 C	20081209	CA19992334295	19990604
DE69927263 D1	20051020	DE19996027263	19990604
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DE69927263 T2	20060622	DE19996027263T	19990604
EP1085922 A1	20010328	EP19990927282	19990604
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ES2249009 T3	20060316	ES19990927282T	19990604
JP2002517290 T2	20020618	JP20000553160T	19990604
US6142008 A	20001107	US19980097068	19980612
US6231320 BA	20010515	US19990302710	19990430
WO0066203 A1	20001109	WO2000US09245	20000406
WO9964093 A1	19991216	WO1999US12642	19990604

Priority:

US19980097068 19980612 US19990302710 19990430 WO1999US12642 19990604
 WO2000US09245 20000406

Probable Assignee: ICU MEDICAL INC**Assignee(s):** (std): ABBOTT LAB ; HOSPIRA INC ; ABBOTT LABORATORIES**Assignee(s):** ICU MEDICAL INC ; SOBERON PETER A ; MO FRANK S C ; LYNCH CHRISTOPHER D ; LAWLESS MICHAEL W ; COLE MARTIN A**Inventor(s):** (std): COLE A ; COLE MARTIN A ; LAWLESS MICHAEL W ; LAWLESS W ; LYNCH CHRISTOPHER D ; LYNCH D ; MO FRANK S C ; MO S ; SCHERER ANDREW J ; SOBERON A ; SOBERON PETER A ; SQUARCIA STEPHANIE R ; MICHAEL W LAWLESS ; MARTIN A COLE ; FRANK S C MO ; CHRISTOPHER D LYNCH ; PETER A SOBERON**Inventor(s):** MO FRANK S ; STEPHANIE R SQUARCIA ; ANDREW J SCHERER**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OGILVY RENAULT LLP SENCRL SRL; KAWAGUCHI YOSHIO; OSAKI KATSUMASA; ONO MAKOTO; TSUBOKURA MICHIAKI; BETH A VRIONI; BRIAN R WOODWORTH**Designated states:** AT AU BE CA CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE**4) Family number: 55885076 (US2014058235A)**

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Title: ANALYTE SENSOR**Abstract:** Systems and methods of use for continuous analyte measurement of a host's vascular system are provided. In some embodiments, a continuous glucose measurement system includes a vascular access device, a sensor and sensor electronics, the system being configured for insertion into communication with a host's circulatory system.**Classifications:****International (IPC 8-9):** A61B5/00 A61B5/145 A61B5/1473

A61B5/1486 A61B5/1495 A61B5/15 A61B5/155 A61B5/157

C12Q1/00 (Advanced/Invention);

A61M5/14 A61M5/142 A61M5/168 A61M5/172 G06F19/00

G16H40/40 (Advanced/Non-invention)

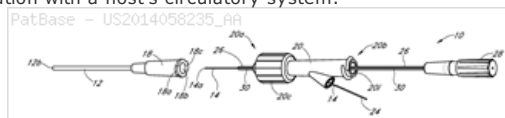
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G16H20/17 G16H40/63

US: 600/309 600/345**Family:**

Publication number	Publication date	Application number	Application date
US2014058235 AA	20140227	US20130072659	20131105
US10052055 BB	20180821	US20130072659	20131105

Priority:

US20030633367 20030801 US20030527323P 20031205 US20040587787P 20040713
 US20040614683P 20040930 US20040004561 20041203 US20060543396 20061004
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 US20130072659 20131105

Probable Assignee: DEXCOM INC**Assignee(s):** (std): DEXCOM INC**Inventor(s):** (std): BRISTER MARK C ; KAMATH APURV ULLAS ; LI YING ; YANG RICHARD C**Agent(s):** KNOBBE MARTENS OLSON AND BEAR LLP**5) Family number: 32658157 (US2006042631A)**

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Title: APPARATUS TO DELIVER OXYGEN TO A PATIENT**Abstract:** Disclosed is an oxygen delivery device for regulating the flow of oxygen from an oxygen source to a respiratory cannula located on the face of a patient. A host controller coupled to the oxygen delivery device accepts an input from a

medical monitor relating to the blood oxygen saturation percentage of the patient. The host controller then regulates the rate of oxygen supplied to the patient based in part upon the blood oxygen saturation percentage of the patient. A high rate of oxygen is supplied to the patient when the controller detects a blood oxygen saturation level below a predetermined percentage and a low rate of oxygen is supplied when the controller detects a blood oxygen saturation level above a predetermined percentage in an order to minimize wasted oxygen.

Classifications:

International (IPC 8-9): A61B19/00 A61B5/00 A61B5/083

A61B5/097 A61M1/00 A61M15/00 A61M15/08 A61M16/00 A61M16/01
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A61M21/02 A61M31/00 A61M37/00 A61M5/14 A61M5/142 A61M5/162
A61M5/168 A61M5/172 A61N2/00 A62B18/02 A62B23/02 A62B7/10
G06F7/00 G06Q10/00 G06Q50/22 G06Q50/24

G16H10/60 (Advanced/Invention);

A61B19/00 A61M15/08 A61M16/00 A61M16/01

A61M5/162 (Advanced/Non-invention);

A61B19/00 A61B5/08 A61M1/00 A61M15/00 A61M15/08 A61M16/00

A61M16/01 A61M16/06 A61M16/10 A61M31/00 A61M37/00

A61M5/142 A62B23/00 A62B7/10 (Core/Invention)

International (IPC 1-7): A61M15/08

CPC: A61M15/08 A61M16/00 A61M16/01 A61B5/0836 A61B5/411

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A61M5/162 A61M5/16831 A61M5/172 A61M16/024 A61M16/0808

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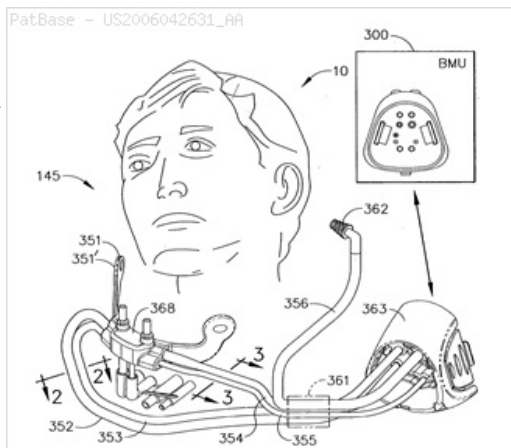
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Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20040605717	20040831	US20040605717P	20040831	US20040629137P	20041118
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Probable Assignee: SCOTT LABORATORIES INC

Assignee(s): (std): ADAIR WILLIAM P ; BISHOP GREGORY D ; BRUGGEMAN PAUL J ; BURDORFF MARK A ; BURFORD CHARLES B ; COBB NICHOLAS E ; COLLINS JR WILLIAM L ; COLLINS WILLIAM L JR ; CUSHING TOMMY C ; DAVIS DEWAYNE A ; DEROUEN JASON P ; DONOFRIO WILLIAM T ; ETHICON DEDO SURGERY INC ; ETHICON ENDO SURGERY INC ; EYSTER CURT R ; FLAKER RICHARD W ; HICKLE RANDALL S ; JOHNSON AND JOHNSON ; KATZ HAL H ; KEILHOLZ DAVID J ; KROGH ROSS ; KULLE LEE K ; LILES JEFF S ; MARTIN JAMES F ; MCRORIE JOHNSON W ; MCRORIE JOHNSON W JR ; MILLER MICHAEL J ; NALAGATLA ANIL K ; NALAGATLA ANILL K ; NIKLEWSKI PAUL J ; PRIVITERA SALVATORE ; SABO LOUIS ; STEVENS FRED B III ; STEVENS III FRED B ; USNIKLEWSKI PAUL J ; WUENNEMAN JEFFERY J ; WUENNEMANN JEFFERY J ; WUENNEMANN JEFFREY J

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

6) Family number: 34502160 (US2009149743A) © PatBase

Title: MEDICAL FLUID INJECTION SYSTEM

Abstract: One embodiment provides a method of using contextual lighting to assist a user of a medical fluid injection system. In this embodiment, the method includes providing a lighted display in proximity to a component of the injection system during setup of the medical fluid injection system. If the user has properly performed a setup function that is associated with the component of the injection system, the method further comprises providing a first visual indication on the lighted display. If the user has not properly performed the setup function that is associated with the component of the

injection system, the method further comprises providing a second visual indication on the lighted display.

Classifications:

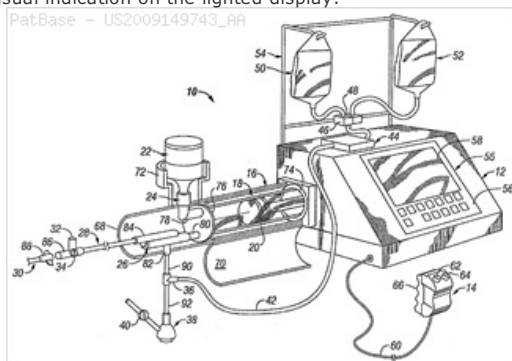
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A61M5/168 A61M5/172 A61M5/178 A61M5/20 A61M5/31 A61M5/36
G06F G06F19/00 G06F3/048 G08B21/00 G16H40/00
G16H40/63 (Advanced/Invention);
A61B6/00 A61M5/14 A61M5/168 A61M5/36 (Advanced/Non-invention);
A61B6/00 A61M31/00 A61M39/02 A61M5/00 G06F3/048
G08B21/00 (Core/Invention);
A61M (Subclass/Invention)

International (IPC 1-7): A61M31/00

CPC: A61M5/007 A61B6/481 A61B6/504 A61B6/548 A61M5/14216
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European: A61M5/00R A61M5/142G2 A61M5/145B A61M5/168A11
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K61M5/36B

US: 1/1 340/635 340/635S 600/431 600/431P 600/432 715/709
715/709S 715/761 715/761S 715/771 715/771S 715/810 715/810S 715/846



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Publication number	Publication date	Application number	Application date
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WO07062315 A3	20071129	WO2006US60983	20061116

Priority:

US20050738829P	20051121	CN200680050825	20061116	EP20060846325	20061116
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US20120620123	20120914				

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Inventor(s): MENENDEZ JR ; THE DESIGNATION OF THE INVENTOR HAS NOT YET... ; KARAHALIOS ANASTASIOS G CHICAGO ; O'LEARY JEREMIAH ; KARAHALIOS ANASTASIOS ; HEIB MARTIN G ST LOUIS PARK ; GRACEFFA JOSEPH CHICAGO ; HAJICEK DAVID

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT HW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 48165205 (US2012191059A)

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Title: CASSETTES AND METHODS OF USING SAME

Abstract: The present disclosure provides cassettes and methods of using same for the delivery of fluids to a patient using fluid delivery systems. In a general embodiment, the cassettes of the present disclosure include a flexible tube, a housing having a recessed area and first and second ends for holding the flexible tube, and at least two additional components including, for example, different sensors, false reading components for sensors, anti-flow valve means, insertion guides, directional indicators, latch mechanisms, kink-prevention notches, etc. Such additional components provide the cassettes of the present disclosure with several advantages including, for example, quality control, efficiency of use, cost effectiveness, and safety of use.

Classifications:

International (IPC 8-9): A61J15/00 A61M A61M37/00 A61M39/00 A61M39/28 A61M5/00 A61M5/14 A61M5/142 A61M5/168 A61M5/36 F16K7/04 F16K7/06 F17D3/00 G01J5/02 G01J5/08 G01L G01L9/00 (Advanced/Invention); A61M39/28 A61M5/142 A61M5/36 (Core/Invention); A61M G01L (Subclass/Invention)

International (IPC 1-7): A61M5/168

CPC: F16K7/06 Y10T137/8593 Y10T137/85978 A61M5/14212 A61M39/283 A61M5/14232 A61M39/281 A61M39/284 A61M2205/12 A61M2205/6045 Y10T137/0318 A61M2205/128 F16K7/063 A61M5/16854 A61M5/365 A61M2205/14 A61M5/16831 A61M2205/3306

European: A61M39/28A A61M39/28C A61M5/142G8 A61M5/168D A61M5/168D4 A61M5/36B K61M205/12 K61M205/12V K61M205/14 K61M205/33D K61M205/60H

US: 1/1 137/1 137/561R 137/565.01 250/353 250/395 251/4

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Family:

Publication number	Publication date	Application number	Application date
AU2010273694 AA	20120209	AU20100273694	20100708
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Priority:

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ANDREW PETER NELSON ; DAVID CHARLES CUMMINGS ; DAVID WOODRUFF WEST

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Designated states:

AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 58466214 (US2015045641A)

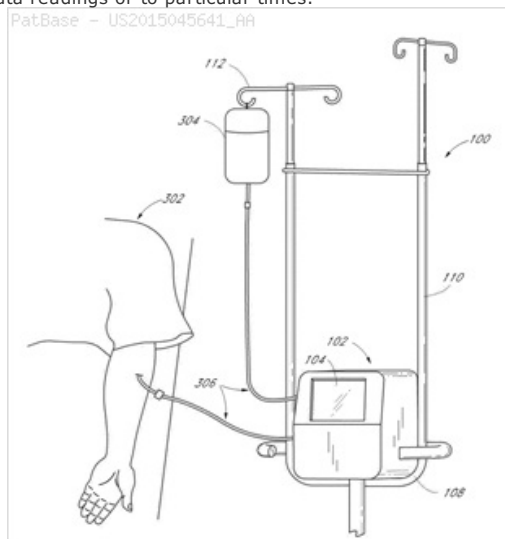
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Title: METHOD AND APPARATUS FOR ANALYTE MEASUREMENT, DISPLAY, AND ANNOTATION

Abstract: Systems for rapid and accurate analyte measurement are described. For example, periodic glucose measurements can be achieved with high accuracy in a critical care environment by drawing blood into a device more than once per hour, analyzing blood (for example using infrared radiation through plasma). Safety and accuracy can be achieved by improved fluid control and avoidance of clotting. Data can be conveyed (e.g., displayed) to a user. A user can be allowed to annotate the data. For example, a touchscreen or other interface can allow addition of notes on a running graph of data, indicating events or other items of interest that may correspond to data readings or to particular times.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/145 A61B5/1455 A61B5/1468 A61B5/15 A61B5/157 A61M5/142 A61M5/172 (Advanced/Invention)
CPC: A61B5/14503 A61B5/14532 A61B5/14557 A61B5/15003 A61B5/150229 A61B5/150992 A61B5/157 A61B5/7275 A61B5/7282 A61B5/7435 A61B5/7475 A61M5/142 A61M5/1723 A61M2005/14208 A61M2205/12 A61M2205/3306 A61M2205/505 A61M2230/201 A61B5/1455 A61B5/1468 A61B5/742
US: 600/309 600/316 600/347 600/365



Family:

Publication number	Publication date	Application number	Application date
US2015045641 AA	20150212	US20140208672	20140313
US2019336678 AA	20191107	US20190270471	20190207

Priority:

US20130779008P 20130313 US20140208672 20140313 US20190270471 20190207

Probable Assignee:

OPTISCAN BIOMEDICAL CORP

Assignee(s): (std):

OPTISCAN BIOMEDICAL CORP

Assignee(s):

EAST WEST BANK

Inventor(s): (std):

RULE PETER

9) Family number: 31391271 (US2004254527A)

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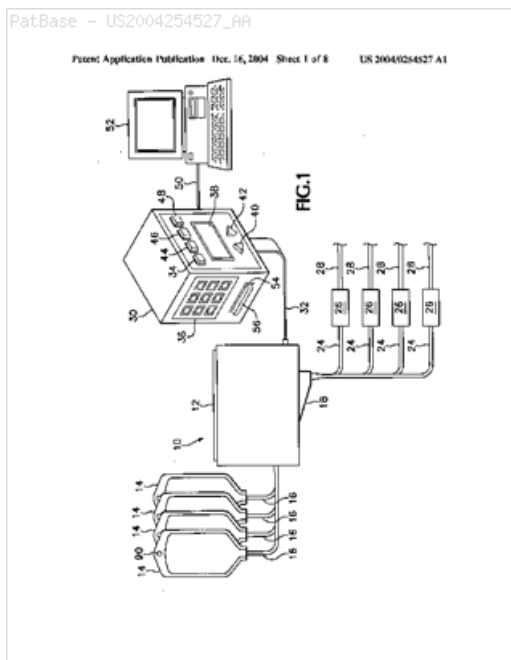
Title: APPARATUS AND METHODS FOR ADMINISTERING BIOACTIVE COMPOSITIONS

Abstract: Bioactive agents are dosed by a jet dispenser using inkjet technology, such as that used in printing devices. The jet dispenser dispenses precise amounts of bioactive agent into a fluid manifold, in which the bioactive agent can be mixed with an infusion liquid for infusing into a patient. A controller may control delivery of one or more drugs, timing of drug administration, or change drug regimens in response to a changing medical condition of a patient. A drop detector can be used to detect various characteristics of the droplets of the bioactive agent dispensed by the jet dispenser and provide a feedback signal to the controller to determine whether a detected characteristic satisfies a predetermined condition. Methods for administering bioactive agents using a jet dispenser also are disclosed.

Classifications:

International (IPC 8-9): A61M31/00 A61M39/00 A61M5/00 A61M5/14 A61M5/142 A61M5/168 B41J2/01 B41J2/175 G06F19/00 G06Q10/00 (Advanced/Invention); A61M5/00 A61M5/14 (Advanced/Non-invention); A61M31/00 A61M39/00 A61M5/00 A61M5/14 A61M5/142 A61M5/168 B41J2/01 B41J2/175 G06F19/00 G06Q10/00 (Core/Invention); A61M5/14 (Core/Non-invention)
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European: A61M5/142G A61M5/168A11 B41J2/01 B41J2/175C2 G06Q50/22 K61M15/02A K61M205/02M K61M205/33 K61M205/35R2

K61M205/35T K61M205/50A1 K61M205/52 K61M5/142 K61M5/14B1
K61M5/168A11 K61M5/168A5 K61M5/168M4 K61M5/172
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US: 604/173 604/173S 604/253 604/253S 604/65 604/82 604/82P
604/82S 705/2 705/2P



Family:

Publication number	Publication date	Application number	Application date
DE602004010455 D1	20080117	DE200460010455T	20040602
DE602004010455 T2	20081120	DE200460010455T	20040602
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TW200427476 A	20041216	TW20040101041	20040115
US2004254527 AA	20041216	US20030459065	20030610
US2006031099 AA	20060209	US20050228884	20050916
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Priority:

US20030459065 20030610 JP20040166863 20040604 US20040618933P 20041013
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Assignee(s): (std): VITELLO CHRISTOPHER J ; VITELLO CHRISTOPHER JOHN ; WELKLEY STEPHEN R ; WELKLEY STEVE ; EVANS ANDREW L ; GREEVEN JOHN C ; HEWLETT PACKARD DEVELOPMENT CO

Assignee(s): HEWLETT PACKARD DEVELOPMENT CO LP ; ORNELLAS FREDERIC ADAM ; KING WILLIAM F ; HEWLETT PACKARD DEVELOPMENT COMPANY L P ; AMES ERIC L

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Inventor(s): WELKLEY STEPHEN ; VITELLO CHRISTOPHER ; GREEVEN JOHN ; EVANS ANDREW

Agent(s): HEWLETT PACKARD COMPANY; HEWLETT PACKARD CO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

10) Family number: 50240357 (US2011313318A)

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Title: SYSTEMS AND METHODS TO REDUCE FLUID CONTAMINATION

Abstract: Methods and systems for determining the concentration of one or more analytes from a sample such as blood or plasma are described. The systems described herein can be configured to withdraw a certain volume of sample from a source of bodily fluid, direct a first portion of the withdrawn sample to an analyte monitoring system and return a second portion of the sample to the patient. The analyte monitoring system can include an automated blood withdrawal system that is configured to withdraw blood from the patient's vasculature at low pressure and/or withdrawal rates so as to reduce or prevent contamination of the withdrawn fluid from the infusion fluids.

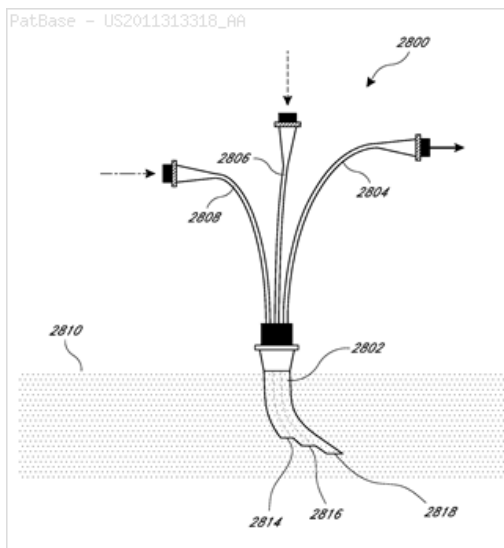
Classifications:

International (IPC 8-9): A61B5/00 A61B5/145 A61B5/1455
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A61B5/157 A61D5/00 A61M1/00 A61M25/01 A61M27/00 A61M39/10
A61M5/14 A61M5/172 B65D33/00 B65D81/00 G01N1/10 G01N21/03
G01N21/07 G01N33/48 G01N33/49 G01N33/50 G01N33/66
G06F19/00 G06F19/10 G16B99/00 G16C99/00
G16H20/17 (Advanced/Invention);
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CPC: A61B5/4839 A61B5/1495 A61B5/150244 A61B5/150389
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European: A61B5/1459 A61B5/145G A61B5/1495 A61B5/14B8
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US: 1/1 356/246 356/39 600/309 600/322 600/581 600/581P 702/19
702/21 702/23 702/25



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20190680468 20191111		

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW