

Nicolas Vargas

1) Family number: 45169903 (US2010145248A)

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Title: SYSTEM FOR ENRICHING A BODILY FLUID WITH A GAS HAVING AUTOMATED PRIMING CAPABILITIES

Abstract: Source: US2010145248A [EN] This invention discloses a modular system having a base module, a mid-section control module, and a display module for preparing and administering a gas-enriched bodily fluid. Gas-enrichment is achieved by a gas-enriching device which can be in the form of a disposable cartridge. During operation, the gas-enrichment device is placed in an enclosure within the control module to form a fluid pathway for extracorporeal circulation of the bodily fluid. An electronic controller manages the various aspects of the system and executes an automated method for priming the extracorporeal circuit.

Classifications:

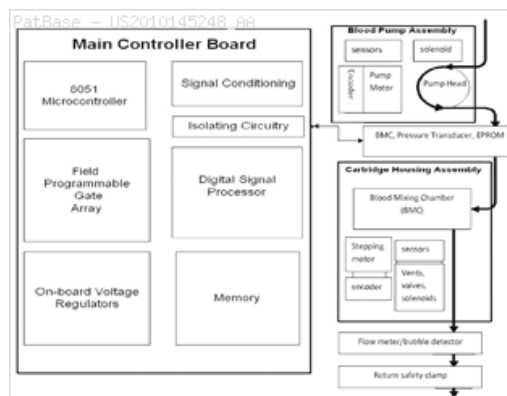
International (IPC 8-9): A61M1/00 A61M1/14 A61M1/32 A61M1/36 A61M37/00 (Advanced/Invention);

A61M1/32 A61M1/36 (Core/Invention)

CPC: B01F3/04758 A61M1/32 A61M2205/123 A61M2209/08

European: A61M1/32 K61M205/12B K61M209/08

US: 422/44 604/4.01 604/4.010P 604/6.14



Family:

Publication number	Publication date	Application number	Application date
DE602009016030 D1	20130725	DE200960016030T	20091124
EP2370123 A2	20111005	EP20090764649	20091124
EP2370123 B1	20130529	EP20090764649	20091124
JP2012510858 T2	20120517	JP20110539591T	20091124
JP5698676 B2	20150408	JP20110539591T	20091124
US2010145248 AA	20100610	US20080328635	20081204
US8246564 BB	20120821	US20080328635	20081204
WO10065392 A2	20100610	WO2009US65671	20091124
WO10065392 A3	20100812	WO2009US65671	20091124
WO10065392 A9	20101125	WO2009US65671	20091124

Priority:

EP20090764649 20091124 US20080328635 20081204 WO2009US65671 20091124

Probable Assignee: THEROX INC

Assignee(s): (std): AOKI JOHN M ; GILKERSON JOHN S ; MYRICK STEPHEN E ; THEROX INC ; WATSON GREGORY P

Assignee(s): THEROX INC IRVINE

Inventor(s): (std): AOKI JOHN ; AOKI JOHN M ; GILKERSON JOHN ; GILKERSON JOHN S ; MYRICK STEPHEN ; MYRICK STEPHEN E ; WATSON GREGORY ; WATSON GREGORY P

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; MUELLER BORE AND PARTNER PATENTANWALTE; MUELLER BORE AND PARTNER PATENTANWALTE; THEROX INC LEGAL DEPARTMENT; WEI-NING; CHEN YOSHIMURA LLP; WEI NING; KIVINSKI MARGARET

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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 45169904 (US2010143191A)

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Title: SYSTEM FOR ENRICHING A BODILY FLUID WITH A GAS HAVING A DUAL-FUNCTION POWER SWITCH MECHANISM

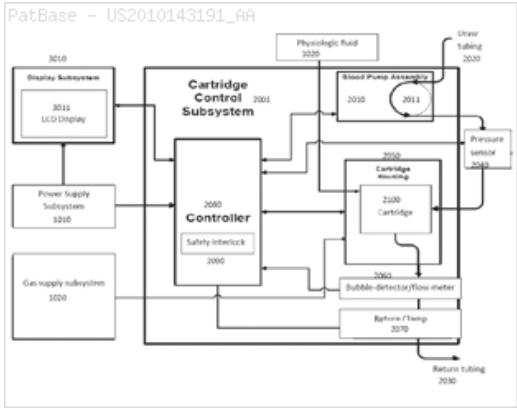
Abstract: Source: US2010143191A [EN] This invention discloses a modular system having a base module, a mid-section control module, and a display module for preparing and administering a gas-enriched bodily fluid. An apparatus adapted for connecting with a gas tank is included in the system for gas tank hook-up. Gas-enrichment is achieved by a gas-enriching device which can be in the form of a disposable cartridge. During operation, the gas-enrichment device is placed in an enclosure within the control module. An electronic controller manages the various aspects of the system such as the production of gas-enriched fluid, flow rates, bubble detection, and automatic operation and shut down. The system has a power supply for providing electrical power to the system, and a switching mechanism coupled to the power supply and gas tank for synchronized switching of the power supply and the gas tank between an ON state and an OFF state.

Classifications:

International (IPC 8-9): A61M1/14 A61M1/16 A61M1/32 A61M37/00 (Advanced/Invention);

A61M1/14 A61M1/16 A61M1/32 (Core/Invention)

CPC: A61M1/32
European: A61M1/32
US: 422/45 422/45P 604/4.01



Family:

Publication number	Publication date	Application number	Application date
EP2370122 A1	20111005	EP20090764412	20091124
JP2012510860 T2	20120517	JP20110539594T	20091124
US2010143191 AA	20100610	US20080328664	20081204
US8192384 BB	20120605	US20080328664	20081204
WO10065395 A1	20100610	WO2009US65709	20091124
WO10065395 A9	20110106	WO2009US65709	20091124

Priority:

US20080328664 20081204 WO2009US65709 20091124

Probable Assignee: THEROX INC

Assignee(s): (std): MYRICK STEPHEN E ; THEROX INC ; WATSON GREGORY P ; YOUNG ACHILLES V

Inventor(s): (std): MYRICK STEPHEN ; MYRICK STEPHEN E ; WATSON GREGORY ; WATSON GREGORY P ; YOUNG ACHILLES ; YOUNG ACHILLES V

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE; THEROX INC LEGAL DEPARTMENT; WEI-NING; CHEN YOSHIMURA LLP; WEI NING; KIVINSKI MARGARET

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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

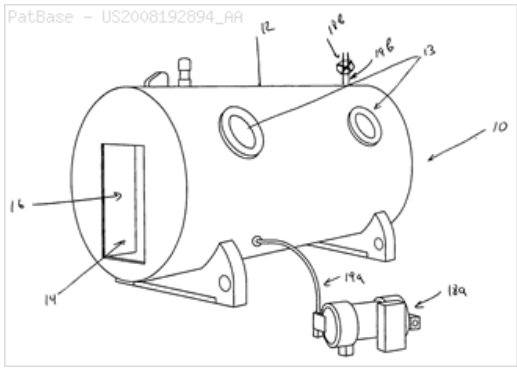
3) Family number: 42102203 (US2008192894A) © PatBase

Title: RADIOTHERAPY CHAMBER AND METHOD

Abstract: Source: US2008192894A [EN] A radiotherapy chamber is provided that comprises a substantially air-tight enclosure adapted to accept a patient; a radiation source disposed inside the enclosure; a patient support system disposed inside the enclosure and in working arrangement with the radiation source; and a screw compressor and an outlet flow modulator fluidly connected to the enclosure. A method for treatment of a subject in need thereof using the radiation chamber is also provided.

Classifications:

International (IPC 8-9): A61G10/00 A61G10/02 A61N5/00 A61N5/10 H05G1/00 H05G1/04 (Advanced/Invention); A61G10/00 A61N5/00 A61N5/10 H05G1/00 (Core/Invention)
CPC: A61G2203/46 A61N5/10 A61G10/023
European: A61G10/02B A61N5/10
US: 128/205.26 378/196 378/208 378/65



Family:

Publication number	Publication date	Application number	Application date
AU2008216361 AA	20080821	AU20080216361	20080212
EP2114528 A2	20091111	EP20080729652	20080212
JP2010517707 T2	20100527	JP20090549301T	20080212
RU2009134149 A	20110320	RU20090134149	20080212
US2008192894 AA	20080814	US20080029931	20080212
US7796729 BB	20100914	US20080029931	20080212
WO08100931 A2	20080821	WO2008US53719	20080212
WO08100931 A3	20081016	WO2008US53719	20080212
WO08100931 B1	20081204	WO2008US53719	20080212

Priority:

US20070889484P 20070212 US20080029931 20080212 WO2008US53719 20080212

Probable Assignee: TRISTATE CAPITAL BANK

Assignee(s): (std): BRIEN WILLIAM J O ; O BRIEN III WILLIAM J ; O BRIEN WILLIAM J ; UNDERWOOD JOSEPH E ; UNDERWOOD JOSEPH E JR ; WILLIAM O BRIEN ; UNDERWOOD JR JOSEPH E

Assignee(s): O'BRIEN III WILLIAM J ; TRISTATE CAPITAL BANK

Inventor(s): (std): UNDERWOOD JOSEPH E ; UNDERWOOD JOSEPH E JR ; O BRIEN WILLIAM J ; UNDERWOOD JR JOSEPH E ; O BRIEN III WILLIAM J

Inventor(s): O'BRIEN III WILLIAM J ; WILLIAM J O BRIEN ; JOSEPH E UNDERWOOD JR

Agent(s): PETER MAXWELL AND ASSOCIATES; SCHMIDT KARSTEN; FOX ROTHSCHILD LLP, PRINCETON PIKE CORPORATE CENTER; FOX ROTHSCHILD LLP PRINCETON PIKE CORPORATE CENTER; NORTON GERARD P ET AL

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 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 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

4) Family number: 45169906 (US2010145249A)

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Title: SYSTEM FOR ENRICHING A BODILY FLUID WITH A GAS HAVING A REMOVABLE GAS-ENRICHMENT DEVICE WITH AN INFORMATION RECORDING ELEMENT

Abstract: Source: US2010145249A [EN] This invention discloses a modular system having a base module, a mid-section control module, and a display module for preparing and administering a gas-enriched bodily fluid via an extracorporeal circuit. Gas-enrichment is achieved by a gas-enriching device which can be in the form of a disposable cartridge. The gas-enrichment device has an information recording element disposed thereon. During operation, the gas-enrichment device is placed in an enclosure within the control module. An electronic controller manages the various aspects of the system such as the production of gas-enriched fluid, flow rates, bubble detection, and automatic operation and shut down. The controller is capable of setting a fluid flow rate in the circuit according to a programming based on the information encoded in the information recording element.

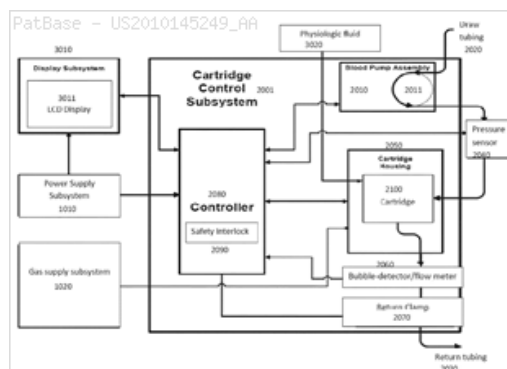
Classifications:

International (IPC 8-9): A61M1/00 A61M1/14 A61M1/32 A61M1/36 A61M37/00 G01N29/02 (Advanced/Invention); A61M1/32 A61M1/36 (Core/Invention)

CPC: A61M1/32 A61M2202/0208 A61M2202/0476 A61M2205/60 G01N29/02 A61M1/3626 A61M2205/3334 A61M2205/3375

European: A61M1/32 K61M202/02A K61M202/04N5 K61M205/60

US: 422/45 604/4.01 604/4.01P 604/6.13 73/19.03



Family:

Publication number	Publication date	Application number	Application date
EP2387426 A1	20111123	EP20090799208	20091124
JP2012510862 T2	20120517	JP20110539596T	20091124
US2010145249 AA	20100610	US20080328680	20081204
US2013269416 AA	20131017	US20130815602	20130312
US8636952 BB	20140128	US20080328680	20081204
WO10065399 A1	20100610	WO2009US65722	20091124

Priority:

US20080328680 20081204 US20130815602 20130312 WO2009US65722 20091124

Probable Assignee: THEROX INC

Assignee(s): (std): AOKI JOHN M ; CREECH JEFFREY L ; MYRICK STEPHEN E ; THEROX INC ; WATSON GREGORY P

Inventor(s): (std): AOKI JOHN ; AOKI JOHN M ; CREECH JEFFREY ; CREECH JEFFREY L ; MARCHWICK TERRY A ; MYRICK STEPHEN ; MYRICK STEPHEN E ; WATSON GREGORY ; WATSON GREGORY P

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE; THEROX INC LEGAL DEPARTMENT; CHEN YOSHIMURA LLP; WEI NING; KIVINSKI MARGARET

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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 45169902 (US2010143190A)

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Title: SYSTEM FOR ENRICHING A BODILY FLUID WITH A GAS HAVING OCCLUSION DETECTION CAPABILITIES

Abstract: Source: US2010143190A [EN] This invention discloses a modular system having a base module, a mid-section control module, and a display module for preparing and administering a gas-enriched bodily fluid via an extracorporeal circuit. Gas-enrichment is achieved by a gas-enriching device which can be in the form of a disposable cartridge. During operation, the gas-enrichment device is placed in an enclosure within the control module. An electronic controller manages the various aspects of the system such as the production of gas-enriched fluid, flow rates, bubble detection, and automatic operation and shut down. The controller is capable of detecting occlusions in the extracorporeal circuit and responding to different occlusion conditions to prevent forced shutdown/re-priming of the circuit.

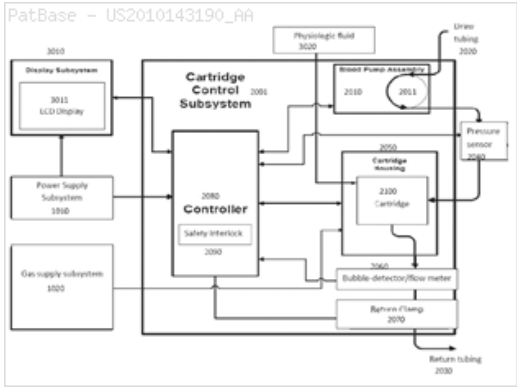
Classifications:

International (IPC 8-9): A61M1/14 A61M1/32

B01F1/00 (Advanced/Invention);

A61M1/14 A61M1/32 (Core/Invention)

CPC: B01F3/04758 A61M1/32 A61M1/3643 A61M2202/0476
A61M2205/12 A61M1/3644
European: A61M1/32 K61M1/36C6 K61M202/04N5 K61M205/12
US: 422/45 422/45P



Family:

Publication number	Publication date	Application number	Application date
EP2370124 A1	20111005	EP20090765187	20091124
JP2012510859 T2	20120517	JP20110539593T	20091124
US2010143190 AA	20100610	US20080328659	20081204
WO10065394 A1	20100610	WO2009US65702	20091124

Priority:

US20080328659 20081204 WO2009US65702 20091124

Probable Assignee: THEROX INC

Assignee(s): (std): THEROX INC

Inventor(s): (std): MYRICK STEPHEN ; MYRICK STEPHEN E ; WATSON GREGORY ; WATSON GREGORY P

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE; THEROX INC LEGAL DEPARTMENT; KIVINSKI MARGARET

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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 45169905 (US2010143192A) © PatBase

Title: METHOD AND DEVICE FOR COMBINED DETECTION OF BUBBLES AND FLOW RATE IN A SYSTEM FOR ENRICHING A BODILY FLUID WITH A GAS

Abstract: Source: US2010143192A [EN] This invention discloses a modular system having a base module, a mid-section control module, and a display module for preparing and administering a gas-enriched bodily fluid. Gas-enrichment is achieved by a gas-enriching device which can be in the form of a disposable cartridge. During operation, the gas-enrichment device is placed in an enclosure within the control module. An electronic controller manages the various aspects of the system such as the production of gas-enriched fluid, flow rates, bubble detection, and automatic operation and shut down. The system includes a combination bubble detector/flow meter that uses a single ultrasonic probe for detecting bubbles and measuring fluid flow rate.

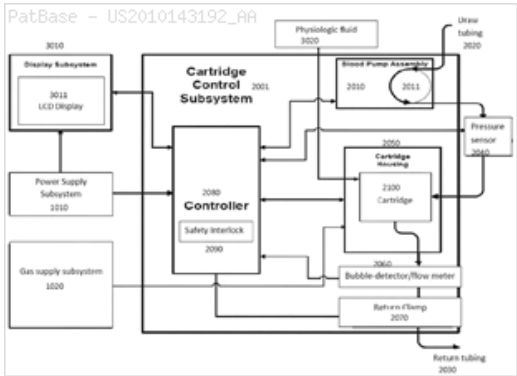
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International (IPC 8-9): A61M1/00 A61M1/14 A61M1/16 A61M1/36 G01N29/02 (Advanced/Invention); A61M1/00 A61M1/16 A61M1/36 (Core/Invention)

CPC: A61M1/1698 A61M1/3621 A61M1/3626 A61M2205/3331 A61M2205/3375

European: A61M1/16S A61M1/36C A61M1/36C3 K61M205/33P K61M205/33U

US: 422/45 422/45P



Family:

Publication number	Publication date	Application number	Application date
EP2387425 A1	20111123	EP20090764951	20091124
JP2012510861 T2	20120517	JP20110539595T	20091124
US2010143192 AA	20100610	US20080328673	20081204
WO10065398 A1	20100610	WO2009US65716	20091124

Priority:

US20080328673 20081204 WO2009US65716 20091124

Probable Assignee: THEROX INC

Assignee(s): (std): THEROX INC

Inventor(s): (std): CREECH JEFFREY ; CREECH JEFFREY L ; MYRICK STEPHEN ; MYRICK STEPHEN E ; WATSON GREGORY ; WATSON GREGORY P

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE; THEROX INC LEGAL DEPARTMENT; KIVINSKI MARGARET

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

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SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 17998685 (DE19622184A1)

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Title: PORTABLE DEVICE FOR LONG TERM PERFUSION OF HUMAN AND ANIMAL TISSUE E.G. HEART LUNG KIDNEY AND LIVER MACHINE

Abstract: Source: DE19622184A1 [EN] The device has a blood pump (1) which pumps the perfusion fluid e.g. blood from a large circuit with organ containers for the organs to be perfused, into a small circuit with an oxygenator (6) for gas exchange. The blood pump (1) also pumps back from the small circuit to the large circuit. The device also includes an easily exchangeable, blood conveying, re-usable organ container (OHB). The organs which replace the natural organs e.g. the heart, lungs, kidney and liver, such as the blood pump (1), oxygenator (6), dialyser (7) and liver substitute organ (10) all have small dimensions and weight and are combined together into a portable device and are driven together. These artificial organs are connected together for uninterrupted ventilation with uninterrupted blood flow although the organs can be used individually or together as required. The organs are arranged for uninterrupted, optimal blood flow. To reduce the required blood pressure of the pump (1) the organs e.g. active oxygenator (6) have their own internal pump and recycling function. The surfaces over which blood pass have pores along their length. Through these pores, with high hydraulic resistance preventing the blood passing through, an active blood thickening substance is added to the blood. The flow rate of the blood in the problematic area of the artificial blood vessel wall is thus increased within strict limits. The blood pump (1) and the blood conveying parts, the separately exchangeable liver module, the battery and the computer with keyboard are easily replaceable components of the device to provide a live support perfusion function. These artificial organs (6,7,10) can also be fitted into a safe, self controlling light device in a compact housing (56).

Classifications:

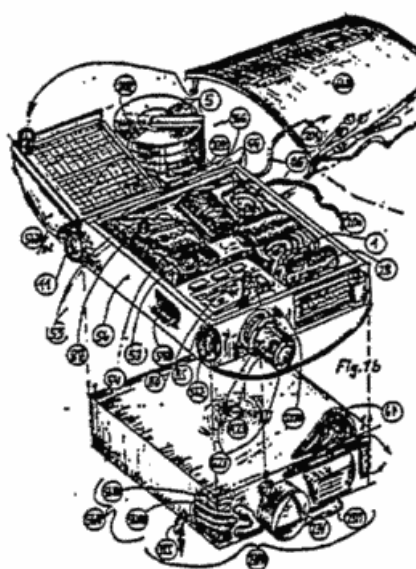
International (IPC 8-9): A61M1/10 A61M1/36 (Advanced/Invention);
A61M1/10 A61M1/36 (Core/Invention)

International (IPC 1-7): A61B5/14 A61H39/00 A61M1/00 A61M1/10
A61M1/14 A61M1/36 A61M25/00 A61M29/00 A61M39/22 F04B23/00
F04B43/00 G06F159/00 G06F19/00

CPC: A61M1/3621 A61M1/26 A61M1/10 A61M1/1006

European: A61M1/10 A61M1/36C

PatBase - DE19622184_A1



Family:

Publication number	Publication date	Application number	Application date
DE19622184 A1	19971204	DE19961022184	19960603

Priority:

DE19961022184 19960603

Probable Assignee: MARTENS JOERN

Assignee(s): (std): MARTENS JOERN

Assignee(s): MARTENS JOERN 27711 OSTERHOLZ SCHARMBECK DE

Inventor(s): (std): MARTENS JOERN

Inventor(s): MARTENS JOERN 27711 OSTERHOLZ SCHARMBECK DE

8) Family number: 61643418 (US2016041177A)

© PatBase

Title: COMPOSITIONS AND METHODS FOR MAKING AND USING OXYGEN SENSING NANOFIBERS AND SCAFFOLDS

Abstract: Source: US2016041177A [EN] To address the need for scaffold-based oxygen concentration monitoring, a single-component, self-referenced oxygen sensor was made into nanofibers. Electrospinning process parameters were tuned to produce a biomaterial scaffold with specific morphological features. The ratio of an oxygen sensitive phosphorescence signal to an oxygen insensitive fluorescence signal was calculated at each image pixel to determine an oxygenation value. A single component boron dye-polymer conjugate was chosen for additional investigation due to improved resistance to degradation in aqueous media compared to a dye polymer blend. Standardization curves show that in fully supplemented media, the fibers are responsive to dissolved oxygen concentrations less than 15 parts per million. Spatial and temporal ratiometric gradients were observed in vitro radiating outward from the center of a dense adherent cell grouping. Sensor activation in ischemia and cell transplant models in vivo show oxygenation decreases on the scale of minutes.

Classifications:

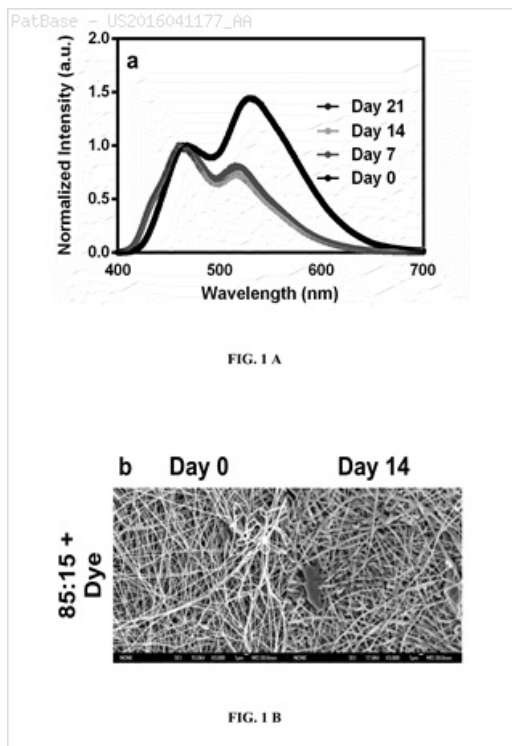
International (IPC 8-9): A61K49/00 A61K8/00 G01N33/58

G01N33/84 (Advanced/Invention)

CPC: G01N33/582 A61K49/0015 G01N2800/7038 A61K49/0021

A61K49/0054 A61K49/0095 G01N33/583 G01N33/84

US: 424/9.6 435/29 435/398



Family:

Publication number	Publication date	Application number	Application date
US2016041177 AA	20160211	US20150818980	20150805
US9874566 BB	20180123	US20150818980	20150805

Priority:

US20140033901P 20140806 US20150818980 20150805

Probable Assignee: UNIV OF VIRGINIA PATENT FOUNDATION

Assignee(s): (std): UNIV OF VIRGINIA PATENT FOUNDATION ; UNIV VIRGINIA PATENT FOUND

Assignee(s): OF VIRGINIA PATENT FOUNDATION UNIV

Inventor(s): (std): FRASER CASSANDRA L ; BRAYMAN KENNETH ; BOWERS DANIEL ; BOTCHWEY III EDWARD A

Agent(s): RODNEY L

9) Family number: 57561553 (WO14165727A1)

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Title: ANTIMICROBIAL TREATMENT OF MEDICAL DEVICE SURFACES

Abstract: A method of making an antimicrobial medical device is described. A medical device or material or portion thereof is provided comprising a contact surface. A first treatment of SiO_x, SiO_xCy, or SiN_xCy is applied to the contact surface. Before or after the first treatment, a second antimicrobially effective treatment is applied to the contact surface. The second treatment is a treatment of a metal selected from silver (preferred), gold, platinum, copper, tantalum, titanium, zirconium, hafnium, or zinc, or a compound of the metal, applied to the contact surface with its first treatment. Medical devices or their parts made according to the above process are also described.

Classifications:

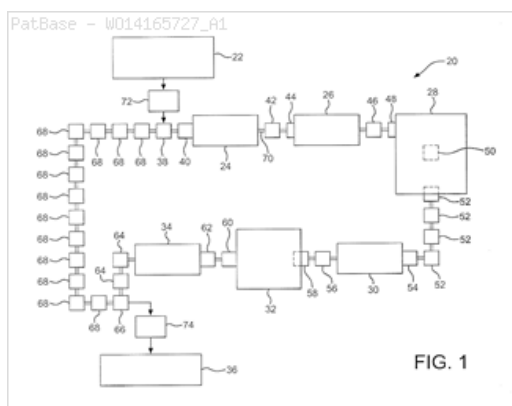
International (IPC 8-9): A61B19/02 A61L2/238 A61L29/08

A61L31/08 (Advanced/Invention)

CPC: A61L2/00 A61L9/00 A61B2017/00889 A61L27/54 A61L29/085

A61L29/16 A61L31/10 A61L31/16 A61L2300/104 A61L2300/404

A61L2400/10 A61L27/34



Family:

Publication number	Publication date	Application number	Application date
WO14165727 A1	20141009	WO2014US32919	20140404

Priority:

US20130808272P 20130404

Probable Assignee: SIO2 MEDICAL PRODUCTS INC

Assignee(s): (std): SIO2 MEDICAL PRODUCTS INC

Inventor(s): (std): ABRAMS ROBERT S

Agent(s): GORNISH DAVID B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

10) Family number: 50665840 (US2013172759A) © PatBase

Title: SYSTEMS AND METHODS FOR USING PHOTOPLETHYSMOGRAPHY IN THE ADMINISTRATION OF NARCOTIC REVERSAL AGENTS

Abstract: Source: US2013172759A [EN] Provided according to embodiments of the present invention are methods of monitoring and treating respiratory depression that include securing a photoplethysmography (PPG) sensor to a central source site of an individual; administering a central nervous system (CNS) depressant to the individual; processing PPG signals from the PPG sensor with a computer in communication with the PPG sensor; and administering a narcotic reversal agent to the individual if the PPG signals or a physiological parameter derived therefrom are outside a preset value range. Related systems are also described.

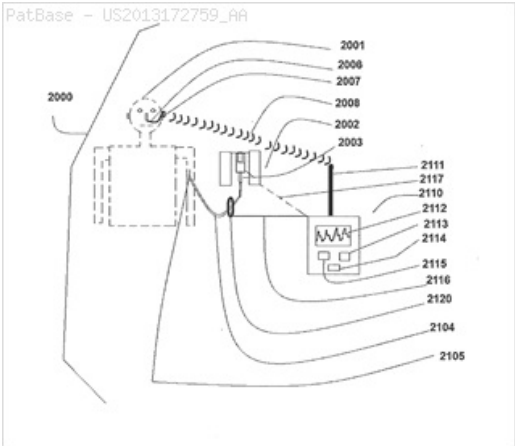
Classifications:

International (IPC 8-9): A61B5/00 A61B5/01 A61B5/02 A61B5/0205 A61B5/0464 A61B5/0476 A61B5/0496 A61B5/08 A61B5/083 A61B5/087 A61B5/11 A61B5/113 A61B5/145 A61B5/1455 A61B5/20 A61M15/00 A61M16/00 A61M16/12 A61M16/14 A61M31/00 A61M5/168 A61M5/172 G06F19/00 (Advanced/Invention)

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European: A61B5/0205 A61B5/1455N A61B5/48J2 A61B5/68B1B A61M16/06L A61M16/10 K61B5/00B5D K61B5/024 K61B5/0402 K61B5/083D K61B5/08R K61B5/08U K61B5/48C8 K61B5/48D K61B5/72K6 K61M16/00A10 K61M16/06L2B K61M16/16B K61M205/33T K61M230/04 K61M230/20D K61M230/43C

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