

Search history

Search 1: FT=(RESPIRATORY~ AND SYSTEM~ AND SIMULATOR~) (Results 1153)

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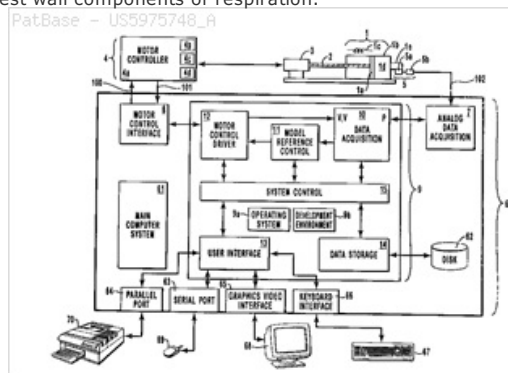
Search 4: FT=(RESPIRATORY~ AND SYSTEM~ AND SIMULATOR AND PHYSICAL AND lung* AND MODEL) AND IC=(G09B) (Results 57)

Abstract: PCT No. PCT/US96/15687 Sec. 371 Date May 29, 1997 Sec. 102(e) Date May 29, 1997 PCT Filed Sep. 30, 1996 PCT Pub. No. WO97/12351 PCT Pub. Date Apr. 3, 1997A computer-controlled servo lung simulator including a mechanical piston which simulates the mechanical properties of the human lung, chest wall and diaphragm. The computer control implemented in the invention includes methods for controlling the servo lung simulator to provide the simulation and control signals for the mechanical piston. The invented servo lung simulator includes abilities such as (a) providing a one or two compartment lung simulation of pediatric and adult patients, (b) simulation of an active chest wall that can emulate triggering events as well as spontaneous breathing, (c) measurement of volume and flow to better than 1 percent accuracy, (d) compliance and resistance elements can be chosen from an almost infinite spectrum of possibilities, (e) enables user to collect, display and store various data results like flow, volume, pressures, peak pressure, pause pressure, breath rate, (f) able to measure work of breathing, trigger response times and other indicators of the quality of spontaneous breathing support modes, (g) simulation of coughs, sighs, ventilatory dysynchrony, and other spontaneous diaphragm and chest wall components of respiration.

International (IPC 8-9): G09B23/28 (Advanced/Invention);
G09B23/00 (Core/Invention)

CPC: G09B23/28

US: 364/578 703/6



Publication number	Publication date	Application number	Application date
AU199673821 A1	19970417	AU19960073821	19960930
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US19950536399 19950929 WO1996US15687 19960930 US19970849395 19970529

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Inventor(s): JEFFREY R ANDERSON ; THOMAS D EAST IV ; EAST THOMAS D ; ERNEST B PAGE

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GN GR GU HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TJ TM TR TS TU UG US UZ VN

Title: ACCESS NEEDLE PRESSURE SENSOR DEVICE AND METHOD OF USE

Abstract: A tool and method of positioning and delivering medical devices and therapeutics within the pericardial space, as well as other body part or space. A needle is inserted into the chest through a sub-xiphoid puncture, and the pressure within the needle is monitored manometrically or otherwise sensed as the needle is advanced towards the pericardial space. By reading the pressure within the needle while it is advanced, the clinician is able to know that he or she is avoiding insertion of it into organs or spaces not intended to be the target location. In addition the retractable sharp edge allows the operator to access the space and cut tissue but do so safely by retracting the sharp edge.

Classifications:

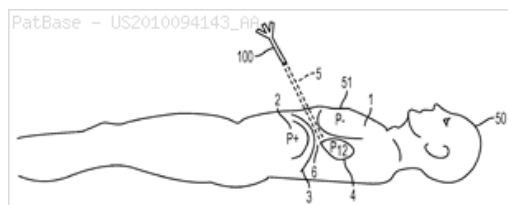
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Priority:

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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

Title: **SYSTEM** AND METHOD FOR INTERFACING CELLULAR MATTER WITH A MACHINE

Abstract: A **system** for interfacing cellular matter with a machine comprising a transponder implantable in cellular matter and configured to detect a first signal. The **system** also includes a receiver external to the cellular matter and configured to receive a second signal in response to the transponder detection of the first signal. A transmitter is also included in the **system** to transmit a third signal to a machine in response to the receiver receipt of the second signal.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0476 A61B5/0484 A61B5/12

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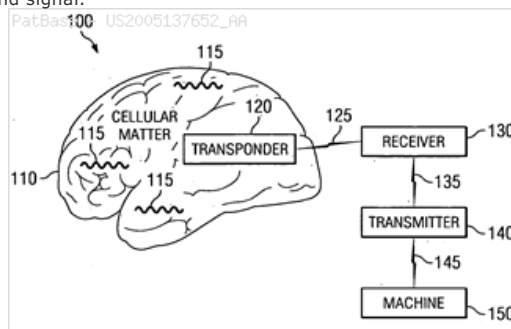
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Priority:

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Probable Assignee: BOARD OF REGENTS UNIV OF TEXAS SYSTEM

Assignee(s): (std): ARMSTRONG SCOTT ; BOARD OF REGEBTS UNIV OF TEXAS SYSTEM ; BOARD OF REGENTS UNIV OF TEXAS SYSTEM ; CAULLER LAWRENCE ; ENGINEER NAZER ; CAULLER LARRY ; ZYVEX CORP ; MICROTRANSPONDER INC ; WEINER RICHARD ; UNIV TEXAS ; MICRO TRANSPONDER INC ; KILGARD MICHAEL ; MCINTYRE CHRISTA ; ROSELLINI WILL ; ENGINEER NAVZER ; ENGINEER NAVZER DARA ; CAULLER LAWRENCE J ; CAULLER LAWRENCE JAMES ; RENNAKER ROBERT L ; PIERCE DAVID MICHAEL ; KILGARD MICHAEL P ; RODRIGUEZ CHRISTA MCINTYRE ; JAIN RAVI ; LEHMAN GUENTER H ; LEHMAN GUNTER

Assignee(s): THE BOARD OF REGENTS THE UNIVERSITY OF TEXAS SYSTEM ; THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; BOARD OF UNIV OF TEXAS SYSTEM ; ZYVEX LABS LLC ; SILICON VALLEY BANK ; OF TEXAS SYSTEM UNIV ; MICRO TRANSPONDER ; BOARD OF UNIV ; BOARD OF UNIV OF TEXAS AT DALLAS ; BOARD OF REGENTS ; BOARD OF REGENTS UNIV ; BOARD OF REGENTS UNIV OF TEXAS SY ; BOARD OF UNIV TEXAS AT DALLAS

Inventor(s): (std): ARMSTRONG SCOTT ; CAULLER LAWRENCE ; CAULLER LAWRENCE J ; LEHMAN GUENTER H ; LEHMAN GUNTER ; MCINTYRE RODRIGUEZ CHRISTA ; NILSEN ERIK ; PIERCE DAVID MICHAEL ; RENNAKER ROBERT L ; RODRIGUEZ CHRISTA MCINTYRE ; WEINER RICHARD ; ROSSELLINI WILL ; ENGINEER NAVZER ; ROSELLINI WILL ; MCLNTYRE CHRISTA ; MCINTYRE CHRISTA ; LAWRENCE CAULLER ; KILGARD MICHAEL ; ENGINEER NAZER ; CAULLER LAWRENCE JAMES ; CAULLER LAWRECE JAMES ; CAULLER LARRY ; KILGARD MICHAEL P ; ENGINEER NAVZER DARA ; JAIN RAVI

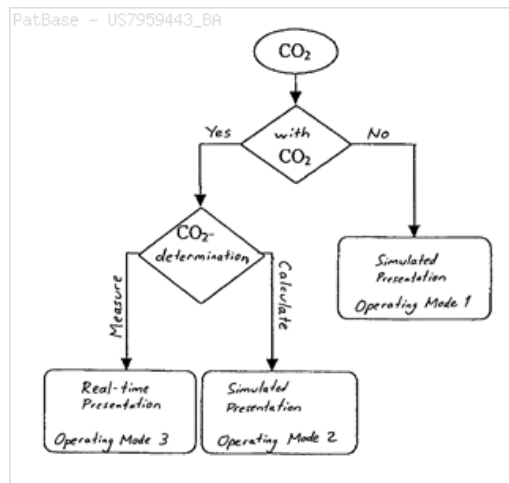
Inventor(s): LARRY CAULLER ; RICHARD WEINER ; WILL ROSELLINI ; MICHAEL KILGARD ; NAZER ENGINEER ; CHRISTA MCINTYRE

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FREEHILLS PATENT ATTORNEY S; FPA PATENT ATTORNEYS PTY LTD; SCHOHE STEFAN; HAYNES AND BOONE LLP; GROOVER AND ASSOCIATES; DAVID C CAIN; CONLEY ROSE P C; GRANT; CONLEY ROSE PC; LOWE HAUPTMAN HAM AND BERNER LLP; LOWE HAUPTMAN AND HAM LLP; HAUPTMAN HAM LLP; GROOVER ROBERT O; CAIN DAVID C; CONLEY ROSE P C ET AL; CONLEY ROSE PC ET AL

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 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 PA 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

Title: LUNG SIMULATOR

Abstract: A **system** and method of delivering CO₂ in a respiration closed-loop control **system** to a **respiratory simulator** includes (a) providing a CO₂ supply to a **respiratory simulator** having a piston/cylinder arrangement; (b) providing flow control hardware between the CO₂ supply and the piston/cylinder arrangement; (c) generating a first control signal representative of a predefined amount of CO₂; and (d) providing the predefined amount of CO₂ into the piston/cylinder arrangement. Thereafter, either (i) an end-tidal carbon dioxide partial pressure (EtCO₂) value is determined based on an amount of CO₂ emptied from the piston/cylinder arrangement during an exhalation phase of the **respiratory simulator** or (ii) an EtCO₂ value is calculated via an equation. A second control signal is generated that is representative of a tidal volume and a breathing frequency representative of a physiological response to the EtCO₂ value to effect corresponding movement of the piston in a next inhalation and exhalation phase.

Classifications:**International (IPC 8-9):** G09B23/28 (Advanced/Invention)**CPC:** G09B23/28 G09B23/32**European:** G09B23/28 G09B23/32**US:** 434/262 434/265**Family:**

Publication number	Publication date	Application number	Application date
US7959443 BA	20110614	US20060520025	20060912

Priority:

US20050716135P 20050912 US20060520025 20060912

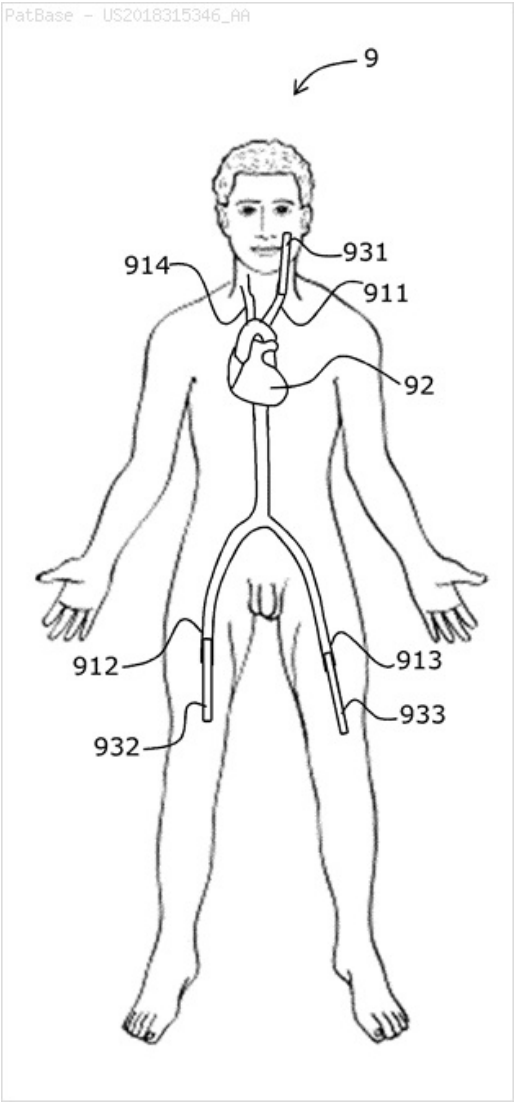
Probable Assignee: INGMAR MEDICAL LTD**Assignee(s):** (std): INGMAR MEDICAL LTD**Inventor(s):** (std): FREMBGEN STEFAN ; GREMME MAIK**Agent(s):** THE WEBB LAW FIRM; WEBB LAW FIRM

Title: MEDICO-SURGICAL **SIMULATOR** AND MEDICO-SURGICAL SIMULATION METHOD

Abstract: Disclosed is a medico-surgical **simulator** and to a corresponding method. The medico-surgical **simulator** includes a vascularization device and/or a ventilation device, as well as a regulation device. The medico-surgical **simulator** is arranged so as to be connected to a cadaver and to vascularize an arterial **system** of the cadaver via the vascularization device and/or to ventilate a **respiratory system** of the cadaver via the ventilation device. The regulation device controls the vascularization and ventilation devices in such a way as to simulate cardiorespiratory functions for providing surgical training carried out on the cadaver with a very high degree of realism.

Classifications:

International (IPC 8-9): G09B23/28 G09B23/30 G09B23/32
G09B9/00 (Advanced/Invention)
CPC: G09B23/288 G09B23/306 G09B23/303



Family:

Publication number	Publication date	Application number	Application date
AU2016349337 AA	20180510	AU20160349337	20161026
EP3371801 A1	20180912	EP20160788081	20161026
FR3053822 A1	20180112	FR20150060488	20151102
JP2018536203 T2	20181206	JP20180541507T	20161026
KR20180084794 A	20180725	KR20187013974	20161026
US2018315346 AA	20181101	US20170769587	20171026
WO17076717 A1	20170511	WO2016EP75819	20161026

Priority:

FR20150060488 20151102 WO2016EP75819 20161026 WO2016EP75819 20171026

Probable Assignee: CENTRE HOSPITALIER UNIVERSITAIRE DE POITIERS

Assignee(s): (std): CENTRE NAT RECH SCIENT ; CENTRE NATIONAL DE LA RECHERCHE SCIENT ; INSERM INST NAT DE LA SANTE ET DE LA RECH MEDICALE ; UNIV DE POITIERS ; INSERM INST NATIONAL DE LA SANTE ET DE LA RECH MEDICALE ; CENTRE HOSPITALIER UNIV DE POITIERS ; INST NAT SANTE RECH MED ; UNIV POITIERS

Assignee(s): CENTRE HOSPITALIER UNIVERSITAIRE DE POITIERS ; INSERM INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE ; INSERM INST NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE ; CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE ; DE POITIERS UNIV

Inventor(s): (std): BREQUE CYRIL ; DELPECH PIERRE OLIVIER ; FAURE JEAN PIERRE ; GHAZALI DANIEL AIHAM ; ORIOT DENIS

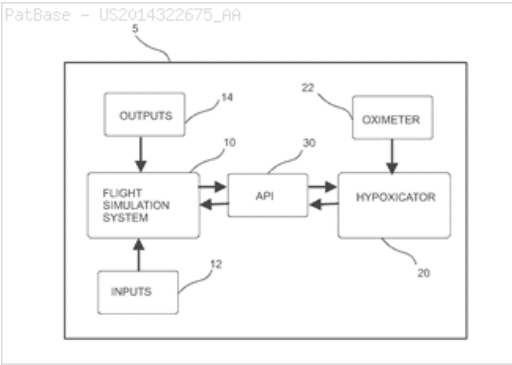
; RICHER JEAN PIERRE
Inventor(s): PIERRE OLIVIER DELPECH ; JEAN PIERRE FAURE ; JEAN PIERRE RICHER ; DENIS ORIoT ; CYRIL BREQUE ; DANIEL AIHAM GHAZALI
Agent(s): DAVIES COLLISON CAVE PTY LTD; IPAZ; PONTET ALLANO AND ASSOCIES
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 KW 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 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

Title: FLIGHT TRAINING **SYSTEM**

Abstract: The present invention provides a **system** for training a subject to recognise the onset of hypoxia, the **system** including (i) a flight simulation **system**, and (ii) a hypoxia induction **system**, wherein the flight simulation **system** is operably linked to the hypoxia induction **system**. The **system** provides a tool for pilot training to a pilot, allowing for the delivery of standardised training programs where the tasks required for the operation of an aircraft are able to be coordinated with an induction of hypoxia in the subject. Such a **system** is also able to provide an assessment tool to demonstrate when a pilot has had sufficient training in recognising the effects of hypoxia.

Classifications:

International (IPC 8-9): G09B9/02 G09B9/08
G09B9/10 (Advanced/Invention)
CPC: G09B9/10 G09B9/085
US: 434/30 434/59



Family:

Publication number	Publication date	Application number	Application date
EP2780902 A1	20140924	EP20120849413	20121112
EP2780902 A4	20150708	EP20120849413	20121112
US2014322675 AA	20141030	US20120359270	20121111
US2014322675 AA	20141030	US20120359270	20121112
US9576496 BB	20170221	US20120359270	20121112
WO13071342 A1	20130523	WO2012AU01381	20121112

Priority:

US20010561001P 20011117 US20110561001P 20111117 WO2012AU01381 20121111
WO2012AU01381 20121112 US20120359270 20121112

Probable Assignee: BIOMEDTECH AUSTRALIA PTY LTD

Assignee(s): (std): BIOMEDTECH AUSTRALIA PTY LTD

Inventor(s): (std): BASSOVITCH OLEG

Agent(s): WALKER ROSS THOMSON; WESTMAN CHAMPLIN AND KOEHLER PA; DAVID D; BOROVEC STEVEN

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 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 PA 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

Title: PATIENT SIMULATION **SYSTEM** FOR MEDICAL SERVICES OR DIAGNOSTIC MACHINES

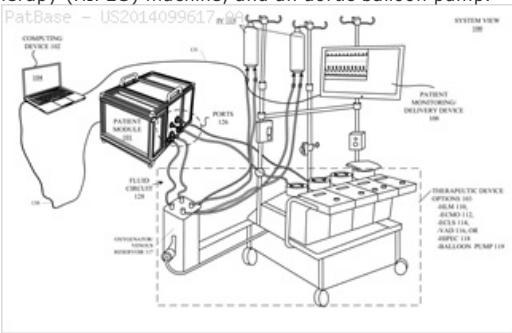
Abstract: A **system**, method, and apparatus for a patient **simulator** that interacts with a diagnostic or therapeutic medical device. The **system** includes a computing device coupled to a patient module. The patient module includes hydraulic equipment that simulates a baseline fluid interconnection with a therapeutic device. The computing device manages **physical** and virtual data, provides algorithmic calculations for simulating hypothetical patient vital signs, long-term clinical course, and simulates related fluid properties. The simulation **system** automatically executes a step-wise clinical scenario, specified in a spreadsheet format of patient conditions and equipment scenarios, that also includes audio/visual stimuli of operating room and diagnostic clinic environments, along with data recording capabilities. The therapeutic device can be a heart **lung** machine (HLM), an extracorporeal membrane oxygenation (ECMO) machine, an emergency cardiac life support (ECLS) device, a ventricular assist device (VAD), a dialysis machines, a hyperthermic intraperitoneal chemotherapy (HIPEC) machine, and an aortic balloon pump.

Classifications:

International (IPC 8-9): A61B5/00 G09B23/28 (Advanced/Invention)

CPC: G09B23/28 G09B23/288 G09B23/303

US: 434/262



Family:

Publication number	Publication date	Application number	Application date
CA2887344 AA	20150409	CA20132887344	20131010
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DE602013023563 D1	20170824	DE201360023563T	20131010
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EP2906107 A4	20151111	EP20130845169	20131010
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SG11201502855X A1	20150528	SG20151102855	20131010
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WO14059198 A1	20140417	WO2013US64417	20131010

Priority:

US20120712250P 20121010 EP20130845169 20131010 US20130051442 20131010
WO2013US64417 20131010

Probable Assignee: BIOMEDICAL SIMULATION CO

Assignee(s): (std): BIOMEDICAL SIMULATION CO ; TALLMAN JR RICHARD D ; TALLMAN RICHARD

Assignee(s): TALLMAN RICHARD POWAY

Inventor(s): (std): TALLMAN JR RICHARD D ; TALLMAN RICHARD

Inventor(s): TALLMAN RICHARD POWAY

Agent(s): ADE AND CO INC; VENNER SHIPLEY LLP; DERRY PAUL STEFAN; NOVAK CHRISTOPHER

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 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 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

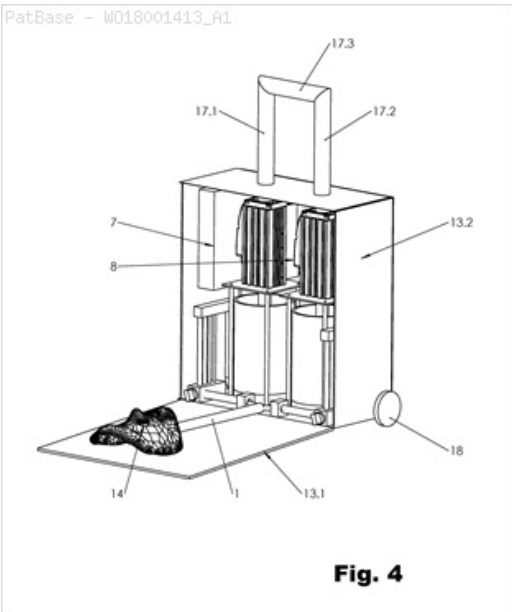
Title: **LUNG SIMULATOR**

Abstract: The invention relates to a **lung simulator** which can be used both as an intubation **simulator** and a **respiratory simulator**. It simulates the **respiratory** mechanics of a real two-compartment **system**, wherein it is particularly suitable for dual lumen intubation and one-sided respiration.

Classifications:

International (IPC 8-9): G09B23/28 (Advanced/Invention)

CPC: G09B23/288



Family:

Publication number	Publication date	Application number	Application date
DE102016112073 A1	20180104	DE201610112073	20160701
WO18001413 A1	20180104	WO2017DE100525	20170621

Priority:

DE201610112073 20160701

Probable Assignee: SCHALLER PETER

Assignee(s): (std): SCHALLER PETER

Inventor(s): (std): SCHALLER PETER

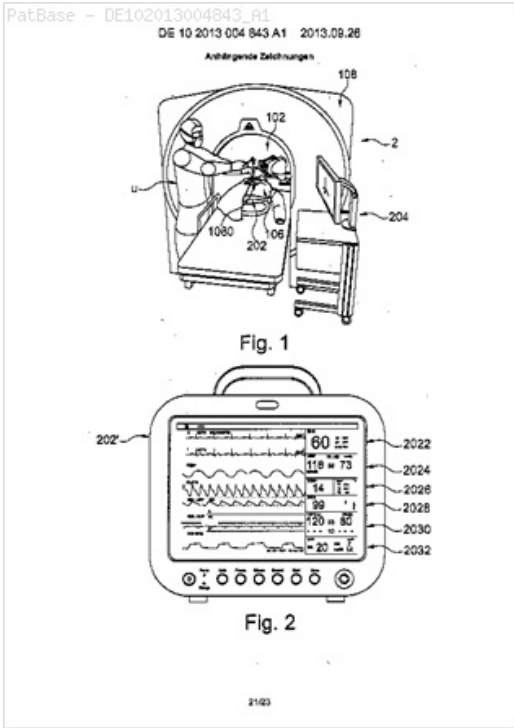
Agent(s): KAUFMANN SIGFRID

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

Title: MEDICAL SIMULATION **SYSTEM** HAS CONNECTION UNIT THAT IS CONNECTED WITH MEDICAL INTERVENTION AND PHYSIOLOGICAL STATE **SIMULATORS**, TO ENABLE INFORMATION FLOW FROM MEDICAL INTERVENTION AND PHYSIOLOGICAL STATE **SIMULATORS** TO CONNECTION UNIT

Abstract: The **system** (2) has a medical intervention **simulator** that simulates one or several medical interventions. A data input device (102) inputs the medical interventions. A physiological state **simulator** simulates the physiological states. A data output device (202) outputs the information concerning the physiological states. A connection unit is connected with the medical intervention and physiological state **simulators**, to enable information flow between the medical intervention **simulator** and connection unit and between the physiological state **simulator** and connection unit. An independent claim is included for medical simulation method.

Classifications:
International (IPC 8-9): A61B19/00 G09B23/28 (Advanced/Invention)
CPC: A61B2017/00707 A61B2017/00716 G09B23/28 A61B34/76



Family:

Publication number	Publication date	Application number	Application date
DE102013004843 A1	20130926	DE201310004843	20130320

Priority:

EP20120160646 20120321

Probable Assignee: MEDABILITY UG HAFTUNGSBESCHRAENKT
Assignee(s): (std): MEDABILITY UG HAFTUNGSBESCHRAENKT
Inventor(s): (std): STEFAN PHILIPP ; TAING STEFAN ; WUCHERER PATRICK

Title: AUTOMATED VENTILATOR WITH ASSISTED COMPRESSIONS

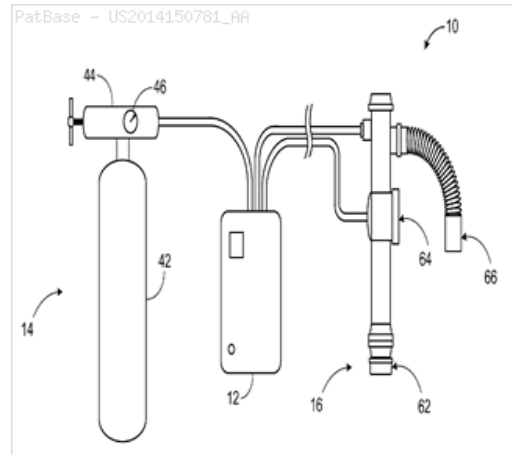
Abstract: A **system** for performing simultaneous ventilation and resuscitation of a patient includes an oxygen source, at least one inspiration control valve, a breathing apparatus, at least one expiration control valve, at least one indicator, and at least one timer. The breathing apparatus is configured to form an air seal with at least a portion of the patient's **respiratory** tract such that a gas including oxygen can flow from the oxygen source to the **lungs**. The at least one expiration control valve being configured to selectively actuate an exhalation valve. The at least one indicator for indicating when a rescuer should perform a chest compression. The at least one timer for synchronizing actuation of the at least one inspiration control valve, the at least one expiration control valve, and the indicator, thereby enabling continuous compressions to be provided to the patient while the patient undergoes inspiration and expiration.

Classifications:

International (IPC 8-9): A61H A61H31/00 A61M A61M16/00 A61M16/04 A61M16/06 A61M16/08 A61M16/20 A61N A61N1/39 A62B A62B7/00 A62B7/02 A62B9/02 G09B23/28 (Advanced/Invention); A61M16/04 (Advanced/Non-invention); A61H A61M A61N A62B (Subclass/Invention)

CPC: A61H2201/107 A61H2201/5007 A61H2201/5058 A61H2201/5071 A61H2201/5084 A61H2201/5087 A61M16/0003 A61M16/0409 A61M16/20 A61M2016/0027 A61M2202/0208 A61M2205/18 A61M2205/33 A61M2205/3331 A61M2205/3334 A61M2205/3344 A61M2205/581 A61M2205/583 A61M2205/587 A61M2205/80 A61M2205/8206 A61M2209/06 A61H31/005 A61M16/201 A61M16/204 A61M16/205 A61M16/206 A61M16/209 A61N1/39 A61H31/00 A61M16/06 A62B7/02 A61H31/006 A61M16/04 A61M16/202 A61M16/0493 A61M16/022

US: 1/1 128/202.16 128/204.18 128/204.21 128/204.23 128/205.23 128/205.24 434/265 601/41



Family:

Publication number	Publication date	Application number	Application date
■ CN104822408 A	20150805	CN201380062327	20131108
■ CN104822408 B	20180706	CN201380062327	20131108
■ DE602013035136 D1	20180426	DE201360035136T	20131108
■ EP2925397 A1	20151007	EP20130798793	20131108
■ EP2925397 B1	20180328	EP20130798793	20131108
■ HK1209066 A1	20160324	HK20150109698	20151002
■ US2014150781 AA	20140605	US20130058365	20131021
■ US2016199253 AA	20160714	US20160069508	20160314
■ US8631790 BA	20140121	US20130736793	20130108
■ US9283340 BB	20160315	US20130058365	20131021
■ WO14085059 A1	20140605	WO2013US69186	20131108

Priority:

US20120731828P 20121130 US20130748521P 20130103 US20130736793 20130108
US20130058365 20131021 EP20130798793 20131108 WO2013US69186 20131108
US20160069508 20160314

Probable Assignee: DI CAPUA JR JOHN F ARMONK

Assignee(s): (std): C PU CHRISTOPHER DI ; C PU JOHN JR DI ; DI CAPUA CHRISTOPHER A ; DI CAPUA JR JOHN F ; DI CAPUA JOHN F JR

Assignee(s): DI CAPUA JOHN F ; DI CAPUA CHRISTOPHER A ARMONK ; DI CAPUA JR JOHN F ARMONK ; DI C PU CHRISTOPHER ; DI C PU JOHN JR

Inventor(s): (std): DI CAPUA CHRISTOPHER A ; DI CAPUA CHRISTOPHER A A ; DI CAPUA JOHN F JR ; DI CAPUA JOHN F JR F ; DI CAPUA JR JOHN F

Inventor(s): DI CAPUA JOHN F JR ARMONK ; DI CAPUA CHRISTOPHER A ARMONK ; DI CAPUA JOHN F

Agent(s): GUARDIAN IP CONSULTING I S; GUARDIAN IP CONSULTING I S; SUNHOPE INTELLECTUAL PROPERTY ATTN MISS FIONA KO LTD; JUSTIN D; NIXON PEABODY LLP; SWINDELLS JUSTIN D

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 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 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

Title: LUNG COMPLIANCE SIMULATION SYSTEM AND ASSOCIATED METHODS

Abstract: A patient simulator system for teaching patient care is provided. The system includes a patient simulator. The patient simulator includes a patient body comprising one or more simulated body portions. The one or more simulated body portions include a lung compliance simulation system in some instances. In that regard, the lung compliance system is configured to be used with an external ventilator, including positive end-expiratory pressure (PEEP) and assisted-control ventilation. In some instances, the lung compliance system includes a lung compartment, a simulated lung positioned within the lung compartment, where the lung compartment defines an available volume for the simulated lung to expand into and where the available volume for the simulated lung to expand into is adjustable to control a compliance of the simulated lung.

Classifications:

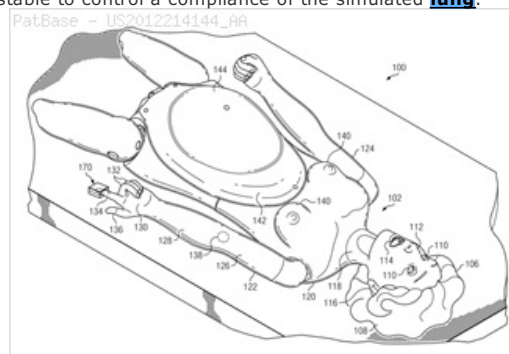
International (IPC 8-9): G09B23/28 G09B23/30

G09B23/32 (Advanced/Invention)

CPC: G09B23/281 G09B23/30 G09B23/32 G09B23/288 B33Y80/00

European: G09B23/28B G09B23/30

US: 1/1 434/265 434/267 434/267P 434/272



Family:

Publication number	Publication date	Application number	Application date
US2012214144 AA	20120823	US20110031116	20110218
US2014051052 AA	20140220	US20130975997	20130826
US2015079569 AA	20150319	US20140550675	20141121
US2016055768 AA	20160225	US20150930178	20151102
US8517740 BB	20130827	US20110031116	20110218
US8899988 BB	20141202	US20130975997	20130826
US9208696 BB	20151208	US20140550675	20141121
US9697750 BB	20170704	US20150930178	20151102

Priority:

US20110031116 20110218 US20130975997 20130826 US20140550675 20141121
US20150930178 20151102

Probable Assignee: GAUMARD SCIENTIFIC CO INC

Assignee(s): (std): CARVAJAL MIGUEL ENRIQUE ; FERNANDEZ VICTOR I ; GAUMARD SCIENT CO INC ; GAUMARD SCIENT COMPANY INC ; RODRIGUEZ ALBERTO ; LOWE SIOBHAIN ; TROTTA THOMAS NEIL

Assignee(s): GAUMARD SCIENTIFIC CO INC ; GAUMARD SCIENTIFIC COMPANY INC

Inventor(s): (std): LOWE SIOBHAIN ; TROTTA THOMAS NEIL ; CARVAJAL MIGUEL ENRIQUE ; RODRIGUEZ ALBERTO ; FERNANDEZ VICTOR I ; CARVAJAL MIGUEL

Agent(s): HAYNES AND BOONE LLP

Title: METHODS AND APPARATUS FOR AUTONOMOUS CASUALTY SIMULATION

Abstract: Method and apparatus to provide simulation of a human casualty. In one embodiment an autonomous casualty **simulator** includes a processing module having a scenario progression controller and a physiological **modeling system** to receive sensor input and to control effectors. The autonomous casualty **simulator** can be contained in a nominal human mannequin form.

Classifications:

International (IPC 8-9): G06F17/50 G09B23/28

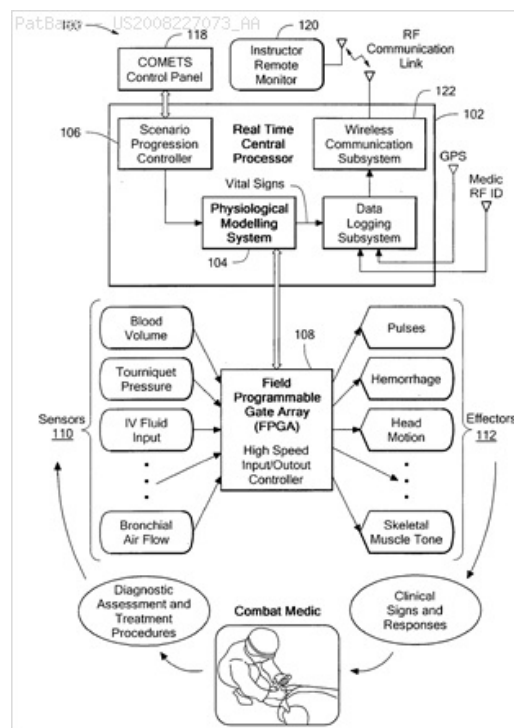
G09B23/30 (Advanced/Invention);

G06F17/50 G09B23/00 (Core/Invention)

CPC: G09B23/30 G09B23/32 G09B23/34

European: G09B23/30 G09B23/32 G09B23/34 G09B9/00B

US: 434/262 434/265 434/267 434/267P 434/268 434/272 434/274



Family:

Publication number	Publication date	Application number	Application date
EP1934848 A2	20080625	EP20060851444	20060928
US2008227073 AA	20080918	US20060067260	20060928
US2013203032 AA	20130808	US20130732536	20130102
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Priority:

US20050721848P 20050929 US20060067260 20060928 WO2006US37663 20060928
US20080067260 20080318 US20130732536 20130102

Probable Assignee: GENERAL HOSPITAL CORP

Assignee(s): (std): BARDSLEY RYAN SCOTT ; DAWSON STEVEN L ; GEN HOSPITAL CORP ; OTTENSMEYER MARK P ; OTTENSMEYER MARK PETER ; SAMOSKY JOSEPH THOMAS ; SAMOSKY JOSEPH T

Assignee(s): US GOVERNMENT SECRETARY FOR ARMY ; GENERAL HOSPITAL CORP

Inventor(s): (std): SAMOSKY JOSEPH THOMAS ; OTTENSMEYER MARK PETER ; DAWSON STEVEN L ; BARDSLEY RYAN SCOTT ; SAMOSKY JOSEPH T ; OTTENSMEYER MARK P

Agent(s): JACKSON DAVID SPENCE; DALY CROWLEY MOFFORD AND DURKEE LLP; QUARLES AND BRADY LLP; ROBINSON KERMIT ET AL

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 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 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

Title: TRACKING AND TRAINING **SYSTEM** FOR MEDICAL PROCEDURES

Abstract: A medical procedure training **simulator** may include a training space. The **simulator** may also include at least one camera in the training space. The at least one camera may be operable to capture video images of an object in the training space as one or more tasks are performed by at least one user. The **simulator** may also include a computer operable to receive the video images. The computer may also be operable to generate position data for the object by processing the video images. The computer may also be operable to generate a simulation of a scene from an operating room based on at least one of the video images and the position data. The computer may also be operable to display the simulation to the at least one user on an electronic display as the one or more tasks are performed by the at least one user.

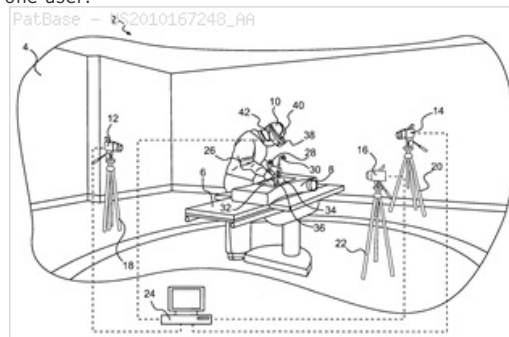
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G09B23/00 H04N7/18 (Core/Invention)

CPC: H04N7/181 A61B34/76 A61B2017/00707 A61B2017/00725
G09B23/28 G09B23/285

European: G09B23/28 G09B23/28E H04N7/18C K61B17/00Q6
K61B17/00Q8 K61B19/22N

US: 348/143 348/143S 348/E7.085 348/E70.85S 434/262 434/262P



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20080318601 20081231

Probable Assignee: CAE HEALTHCARE INC

Assignee(s): (std): HAPTICA LTD

Assignee(s): CAE HEALTHCARE INC

Inventor(s): (std): RYAN DONNCHA

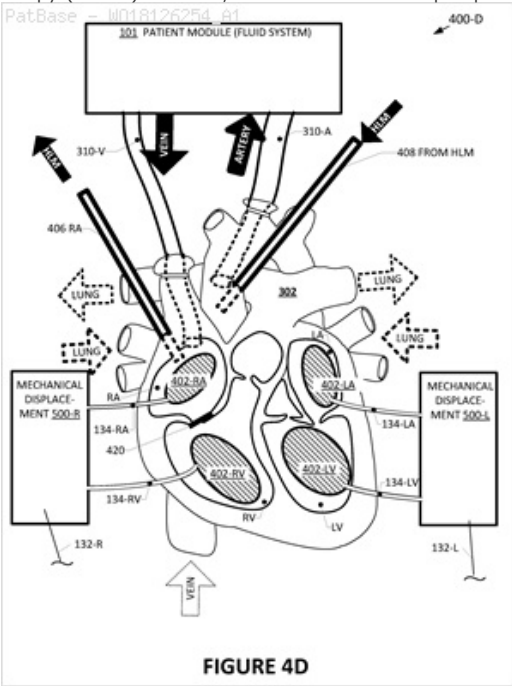
Agent(s): FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

Title: HEART SIMULATION **SYSTEM** FOR MEDICAL SERVICES OR DIAGNOSTIC MACHINES

Abstract: A **system**, method, and apparatus for a patient **simulator** that interacts with a diagnostic or therapeutic medical device. The **system** includes a computing device coupled to a patient module. The patient module includes hydraulic equipment that simulates a baseline fluid interconnection with a therapeutic device. The computing device manages **physical** and virtual data, provides algorithmic calculations for simulating hypothetical patient vital signs, long-term clinical course, and simulates related fluid properties. The simulation **system** automatically executes a step-wise clinical scenario, specified in a spreadsheet format of patient conditions and equipment scenarios, that also includes audio/visual stimuli of operating room and diagnostic clinic environments, along with data recording capabilities. The therapeutic device can be a heart **lung** machine (HLM), an extracorporeal membrane oxygenation (ECMO) machine, an emergency cardiac life support (ECLS) device, a ventricular assist device (VAD), a dialysis machines, a hyperthermic intraperitoneal chemotherapy (HIPEC) machine, and an aortic balloon pump.

Classifications:

International (IPC 8-9): G09B23/00 G09B23/28 G09B23/30
G09B23/32 (Advanced/Invention)
CPC: G09B23/32 G09B23/30 G09B23/303 G09B23/306 G09B23/00
G09B23/28



Family:

Publication number	Publication date	Application number	Application date
WO18126254 A1	20180705	WO2018US12009	20180101

Priority:

US20160441339P 20161231

Probable Assignee: TALLMAN RICHARD D JR

Assignee(s): (std): TALLMAN RICHARD D JR

Assignee(s): TALLMAN RICHARD D

Inventor(s): (std): TALLMAN RICHARD D

Inventor(s): TALLMAN RICHARD D JR

Agent(s): NOVAK CHRISTOPHER

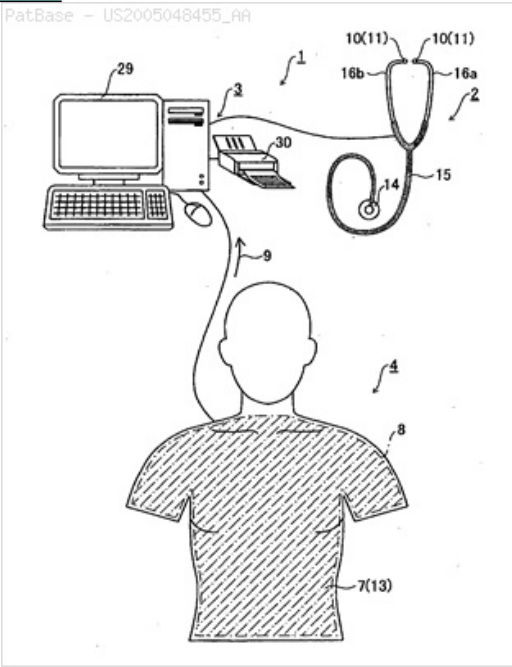
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Title: AUSCULTATION TRAINING DEVICE

Abstract: The auscultation training device enables a trainee to experience and learn various case studies without feeling the difference from the actual auscultatory action using the actual stethoscope in order to obtain the auscultatory technique. The auscultation training device 1 mainly comprises the model human body 4, which is an imitation of a human body upper torso; the stethoscope simulator 2 that the trainee 5 uses to perform the simulation of the auscultatory action on the model human body 4; an auscultatory sensor 8 which detects the auscultatory action by the trainee 5 with the stethoscope simulator 2; and the controller 3 which is connected to the stethoscope simulator 2 and the auscultatory sensor 8 respectively, whereby the controller receives the detected signals 9 of the auscultatory action transmitted from the auscultatory sensor 8, and then controls and processes signals for reproduction of vital sounds including those such as cardiac sounds and breathing sounds of the human body by a vital sound player 11 installed in ear piece 10 of the stethoscope simulator 2.

Classifications:

International (ipc 8-9): A61B7/00 G09B23/28
G10L21/04 (Advanced/Invention);
A61B7/00 G09B23/00 G10L21/00 (Core/Invention)
International (ipc 1-7): A61B7/00 G09B23/28 G10L21/04
CPC: G09B23/288
European: G09B23/28W
US: 434/262



Family:

Publication number	Publication date	Application number	Application date
JP2005077521 A2	20050324	JP20030305261	20030828
JP3829197 B2	20061004	JP20030305261	20030828
US2005048455 AA	20050303	US20030702338	20031106

Priority:

JP20030305261 20030828

Probable Assignee: GIFU UNIV

Assignee(s): (std): UNIV GIFU

Assignee(s): GIFU UNIV ; GIFU UNIVERSITY

Inventor(s): (std): HAYAMIZU SATORU ; KAWASAKI HARUHISA ; NOGATA FUMIO

Agent(s): APEX JURIS PLLC

Title: MULTIMODAL MEDICAL PROCEDURE TRAINING **SYSTEM**

Abstract: The present invention teaches a medical procedure training **system** based on a PC platform that provides multimodal education within a virtual environment. The **system** integrates digital video, three-dimensional **modeling**, and force-feedback devices for the purpose of training medical professionals medical procedures.

Classifications:

International (IPC 8-9): A61B8/00 A61B8/14 A61M21/00 G06G7/48

G06K9/00 G09B19/24 G09B23/28 (Advanced/Invention);

A61M21/00 G09B23/00 (Core/Invention)

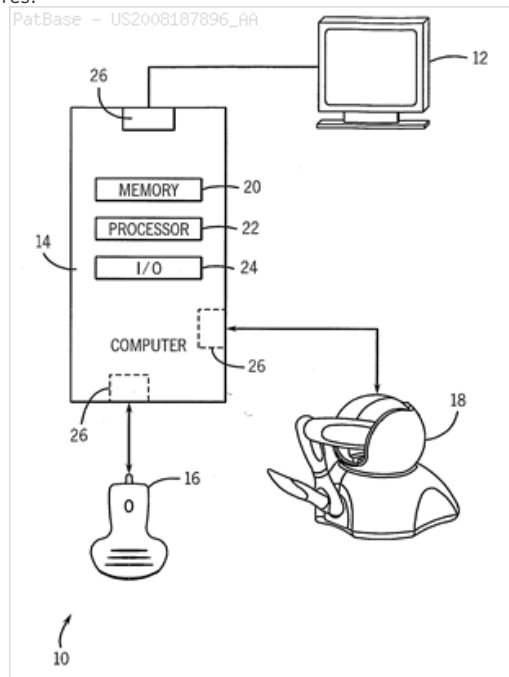
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European: G09B23/28 G09B23/28E G09B23/28R G09B23/28W

US: 382/131 434/262 434/262P 434/267 434/272 434/322 600/416

600/437 600/441 600/443 703/11 703/3



Family:

Publication number	Publication date	Application number	Application date
US2008187896 AA	20080807	US20050720515	20051130
US2012058457 AA	20120308	US20110243758	20110923
US2012237102 AA	20120920	US20120481703	20120525
US2012237913 AA	20120920	US20120481712	20120525
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US2016314715 AA	20161027	US20160198994	20160630
US2017018204 AA	20170119	US20160279405	20160928
US2018330635 AA	20181115	US20180037796	20180717
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US8480404 BB	20130709	US20110243758	20110923
US10026338 BB	20180717	US20120481725	20120525
WO06060406 A1	20060608	WO2005US43155	20051130

Priority:

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Probable Assignee: THE UNIV OF CALIFORNIA

Assignee(s): (std): NATANELI GABRIELE ; PETRINEC KRESIMIR ; THE UNIV OF CALIFORNIA ; UNIV CALIFORNIA ; SAVITSKY ERIC A ; KATZ DAN ; SAVITSKY ERIC ; SONOSIM INC

Assignee(s): CALIFORNIA UNIV ; UNIV OF CALIFORNIA ; REGENTS OF THE UNIVERSITY OF CALIFORNIA THE ; OF CALIFORNIA UNIV ; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA ; UNIV

Inventor(s): (std): KATZ DAN ; NATANELI GABRIELE ; SAVITSKY ERIC A ; PETRINEC KRESIMIR ; SAVITSKY ERIC

Agent(s): WHYTE HIRSCHBOECK DUDEK SC; CISLO AND THOMAS LLP; CISIO AND THOMAS LLP

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 KN 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

Title: **SYSTEM** AND METHOD TO SIMULATE HEMODYNAMICS

Abstract: A **system** for hemodynamic simulation comprises a vessel having properties of a blood vessel, a reservoir containing a quantity of fluid, tubing connecting the vessel and reservoir, and at least one pump for circulating the fluid within the **system**. Fluid can be tissue culture medium or blood analog fluid, and the vessel may include mammalian cells attached to its inside. A drive **system**, comprising two reciprocating drive shafts that are coupled by a cam, enables the uncoupling of pulsatile flow and pulsatile pressure to provide independent control over wall shear stress and circumferential strain. The shaft drives two pumps that are 180 degrees out-of-phase and are connected upstream and downstream of the vessel, and effect this uncoupling.

Classifications:

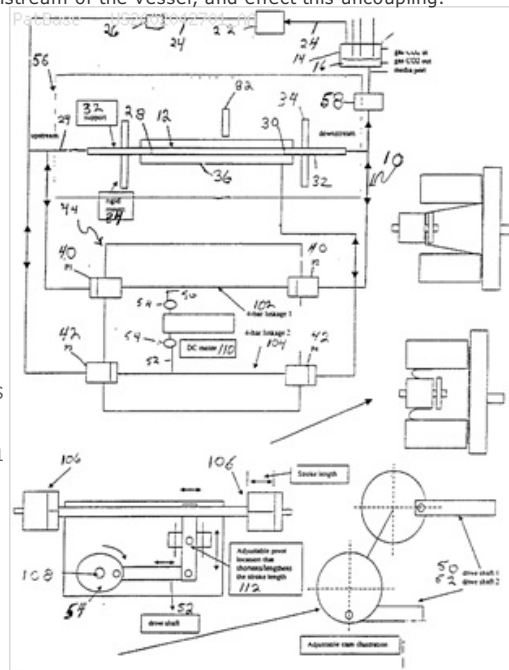
International (IPC 8-9): A01N1/00 A01N1/02 A61F2/04 A61F2/06 A61K35/12 A61K38/21 C12M1/00 C12M1/36 C12M3/00 C12M3/04 C12N11/02 C12N11/10 C12N11/14 C12N5/00 C12N5/02 C12N5/06 C12N5/08 G01N15/00 G06G7/50 G06G7/58 G09B23/28 H01C7/10 H02H3/08 (Advanced/Invention); H01C7/13 (Advanced/Non-invention); A01N1/02 A61F2/04 A61F2/06 A61K35/12 A61K38/21 C12M1/00 C12M3/00 C12M3/04 C12N11/00 C12N5/02 C12N5/08 G06G7/00 H01C7/10 H02H3/08 (Core/Invention); H01C7/13 (Core/Non-invention)

International (IPC 1-7): A01N1/00 A61F2/04 C12M1/36 G01N15/00 G06G7/50 G06G7/58 H02H3/08

CPC: H01C1/1406 H01C7/021 H01C7/18 G09B23/285 A61F2/062 A61F2240/008 Y10S623/916 Y10S623/917 Y10S623/921 Y10S623/915 G09B23/28 A01N1/0247 G09B23/30 G01N2500/10

European: A61F2/06B G09B23/28 G09B23/28E G09B23/30 H01C1/14B H01C7/02B H01C7/18 K61F240/00M14 S01N500/10

US: 128/898 338/22R 424/423 424/423P 424/423S 424/85.4 424/85.400S 424/93.21 424/93.210S 424/93.7 424/93.700S 427/2.25 427/2.250S 435/1.1 435/1.2 435/1.200P 435/174 435/174S 435/176 435/176S 435/177 435/177S 435/178 435/178S 435/283.1 435/283.100S 435/284.1 435/284.100S 435/285.1 435/286.1 435/286.100S 435/286.5 435/286.500S 435/289.1 435/289.100S 435/293.1 435/293.100S 435/297.2 435/299.1 435/304.1 435/305.1 435/307.1 435/307.100S 435/325 435/325S 435/366 435/366P 435/375 435/375S 435/377 435/377P 435/377S 435/395 435/395S 435/402 435/402S 600/36 600/36P 600/36S 623/1.23 623/1.230S 623/1.41 623/1.410P 623/1.410S 623/1.43 623/1.430S 623/1.46 623/1.460S 623/1.47 623/1.470S 623/1.49 623/1.490S 623/915 623/916 623/916S 623/917 623/921 703/11 703/11S 703/9 703/9P 73/168 73/37 73/866.4 73/866.400S



Family:

Publication number	Publication date	Application number	Application date
AU2002230396 AA	20020429	AU20020230396	20011009
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Priority:

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Probable Assignee: ICE DEVELOPMENT TECHNOLOGIES LLC

Assignee(s): (std): DANCU MICHAEL ; DANCU MICHAEL B ; HSU TING ; HSU KANG NENG ; INPAQ TECHNOLOGY CO LTD ; ICE DEV TECHNOLOGIES LLC ; KRSTEC VICTOR ; TARBELL JOHN M ; VICTOR KRSTEC

Assignee(s): ICE DEVELOPMENT TECHNOLOGIES LLC ; JOHN M TARBELL ; MICHAEL B DANCU ; INPAQ TECHNOLOGY CO ; DANCU MICHAEL B POMPTON

Inventor(s): (std): DANCU MICHAEL ; DANCU MICHAEL B ; HSU TING ; HSU KANG NENG ; TARBELL JOHN M

Inventor(s): JOHN M TARBELL ; MICHAEL B DANCU ; TARBELL JOHN ; TARBELL JOHN M STATE COLLEGE

Agent(s): PETER MAXWELL AND ASSOCIATES; MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; HATZMANN MARTIN; FLESHNER AND KIM LLP; VALENTINE FRANCOS AND WHITT PLLC; RENE A VAZQUEZ; RENE A VAZQUEZ WILLIAMS MULLEN; RENE A; FLESHNER MARK L ET AL

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 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 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 YU ZA ZM ZW

Title: REAL-TIME X-RAY VISION FOR HEALTHCARE SIMULATION

Abstract: A medical procedure training **system** and method for using is provided. The **system** includes a sensing **system** structured to detect the position and motion of a medical device inserted into a simulated body, a processor structured to generate images of the medical device and relevant anatomical structures based on the detected position and motion of the medical device, and a display **system** structured to display the images in a correct registration on the outer surface of the simulated body.

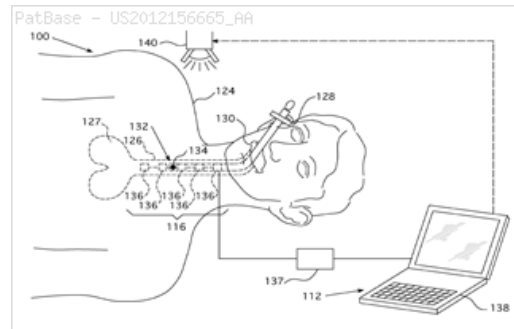
Classifications:

International (IPC 8-9): A61B1/04 A61B6/00 G09B23/28 G09B23/30
G09B9/00 (Advanced/Invention)

CPC: G09B23/30 G09B23/285

European: G09B23/28E G09B23/30

US: 1/1 434/262 434/262P



Family:

Publication number	Publication date	Application number	Application date
US2012156665 AA	20120621	US20100376410	20100610
US9053641 BB	20150609	US20100376410	20100610
WO10144663 A2	20101216	WO2010US38112	20100610
WO10144663 A3	20110331	WO2010US38112	20100610

Priority:

US20090186080P 20090611 US20100376410 20100610 WO2010US38112 20100610

Probable Assignee: UNIV PITTSBURGH OF COMMW SYSTEM OF HIGHER EDUCATION

Assignee(s): (std): SAMOSKY JOSEPH T ; UNIV PITTSBURGH ; UNIV PITTSBURGH OF COMMW SYSTEM OF HIGHER EDUCATION

Assignee(s): UNIVERSITY OF PITTSBURGH OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION ; OF PITTSBURGH OF COMMW SYSTEM OF HIGHER EDUCATION ; OF PITTSBURGH OF COMMW SYSTEM OF HIGHER EDUCATION UNIV

Inventor(s): (std): SAMOSKY JOSEPH T

Agent(s): ECKERT SEAMANS CHERIN AND MELLOTT LLC; STEPHEN A; BUCCHIANERI STEPHEN A 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 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 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

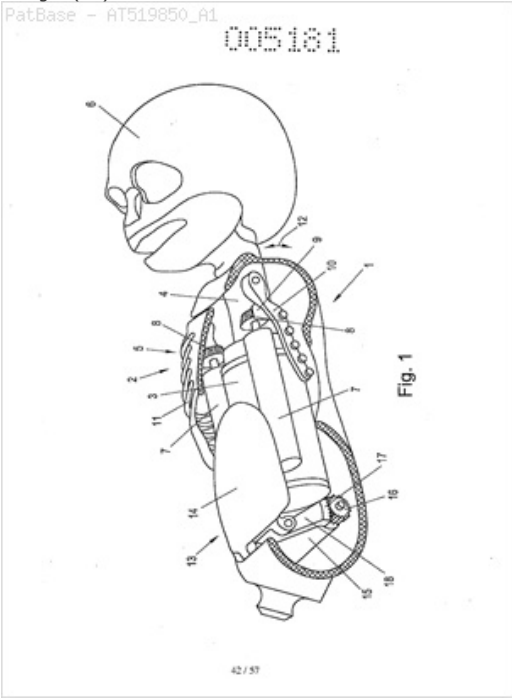
Title: PATIENTENSIMULATOR

Abstract: Source: AT519850B [DE] Bei einem Patientensimulator (1), insbesondere Fruehgeborenen-, Neugeborenen- oder Kindersimulator, umfassend eine Kopfnachbildung (26) mit einer Nasennachbildung (34) mit zwei flexiblen Nasenfluegeln (35), greift an den Nasenfluegeln (35) ein in das Innere der Kopfnachbildung (26) fuehrendes Antriebselement, wie z.B. wenigstens ein Faden oder Hebel (36), an, um eine Aufweitung oder Verengung der Nasenfluegel (35) zu simulieren.

Classifications:

International (IPC 8-9): G09B23/28 G09B23/32 (Advanced/Invention)

CPC: G09B23/32 G09B23/288



Family:

Publication number	Publication date	Application number	Application date
■ AT519850 A1	20181015	AT20170000386	20160705
■ AT519850 B1	20190115	AT20170000386	20160705

Priority:

AT20170000386 20160705

Probable Assignee:

SIMCHARACTERS GMBH

Assignee(s): (std):

SIMCHARACTERS GMBH

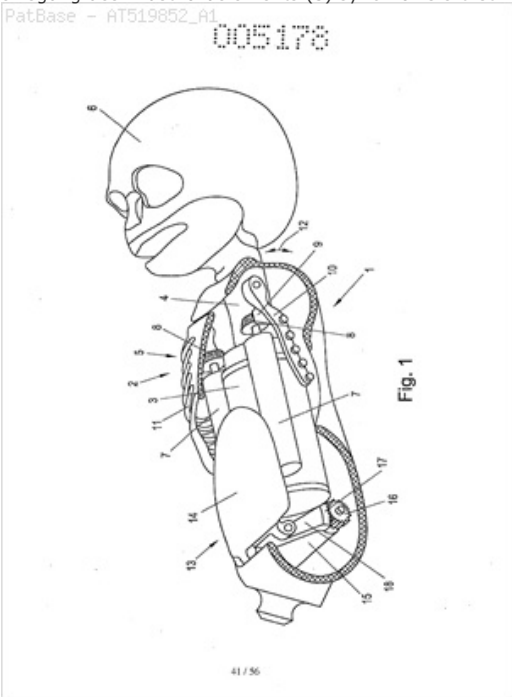
Title: PATIENTENSIMULATOR

Abstract: Source: AT519852B [DE] Bei einem Patientensimulator (1), insbesondere Fruehgeborenen-, Neugeborenen- oder Kindersimulator, umfassend einen **Lungensimulator** (3), eine Thoraxnachbildung (2), die ein heb- und senkbares Brustkorbelement (5) aufweist, das von einer Hub- und Senkmechanik (7) angetrieben wird, und eine Kopfnachbildung (26), die mit einer Kippmechanik zu aenderung des Winkels zwischen Kopfnachbildung (26) und Thoraxnachbildung (2) zusammenwirkt, ist eine Steuervorrichtung dazu eingerichtet, die Kippmechanik zu einer periodischen Kippbewegung der Kopfnachbildung (26) anzutreiben, wobei die periodische Kippbewegung mit der Heb- und Senkbewegung des Brustkorbelements (5) synchronisiert ist.

Classifications:

International (IPC 8-9): G09B23/28 G09B23/32 (Advanced/Invention)

CPC: G09B23/288 G09B23/32



Family:

Publication number	Publication date	Application number	Application date
■ AT519852 A1	20181015	AT20170000383	20160705
■ AT519852 B1	20190115	AT20170000383	20160705

Priority:

AT20170000383 20160705

Probable Assignee:

SIMCHARACTERS GMBH

Assignee(s): (std):

SIMCHARACTERS GMBH

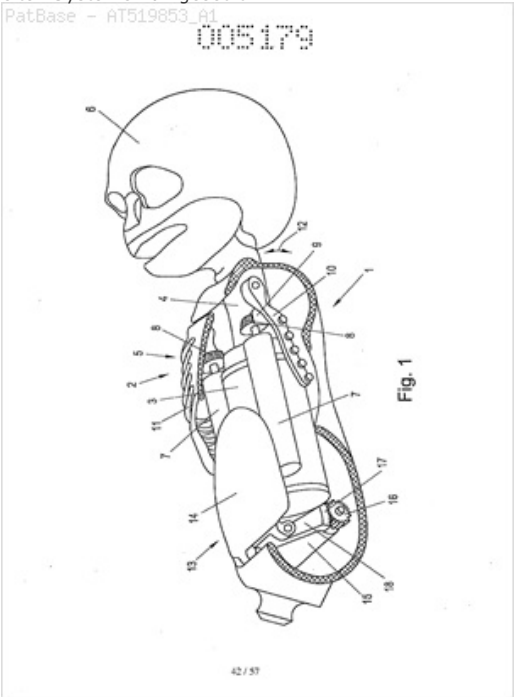
Title: PATIENTENSIMULATOR

Abstract: Source: AT519853B [DE] Bei einem Patientensimulator (1), insbesondere Fruehgeborenen-, Neugeborenen- oder Kindersimulator, umfassend einen **Lungensimulator** (3), eine Thoraxnachbildung (2), die ein heb- und senkbares Brustkorbelement (5) aufweist, das von einer Hub- und Senkmechanik (7) angetrieben wird, und eine Kopfnachbildung (26), die mit einer Kippmechanik zur aenderung des Winkels zwischen Kopfnachbildung (26) und Thoraxnachbildung (2) zusammenwirkt, ist eine Bedieneroberflaeche (72) und eine Monitordarstellung (73) zur Vorgabe und Darstellung von patientenspezifischen Biosignalen und Atemparametern auf zwei, vorzugsweise drahtlos, gekoppelten Systemen umgesetzt.

Classifications:

International (IPC 8-9): G09B23/28 G09B23/32 (Advanced/Invention)

CPC: G09B23/288 G09B23/32



Family:

Publication number	Publication date	Application number	Application date
■ AT519853 A1	20181015	AT20170000384	20160705
■ AT519853 B1	20190115	AT20170000384	20160705

Priority:

AT20170000384 20160705

Probable Assignee:

SIMCHARACTERS GMBH

Assignee(s): (std):

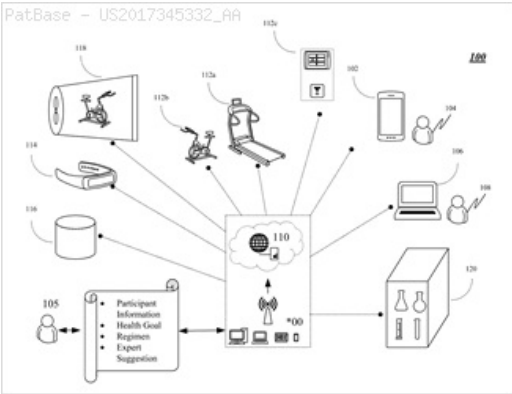
SIMCHARACTERS GMBH

Title: METHOD OF AND **SYSTEM** FOR FACILITATING OPERATION OF A HEALTH MAINTENANCE DEVICE

Abstract: Disclosed is a method of facilitating operation of a health maintenance device. The method may include receiving a plurality of health maintenance participant information associated with a user. At least a part of the plurality of health maintenance participant information may be generated based on monitoring each of the health maintenance device and the user. Further, the method may include generating, using a processing device, a plurality of performance assessments of the user based on the plurality of the health maintenance participant information. Furthermore, the method may include generating at least one control code based on a comparing of the plurality of performance assessments with a health maintenance database. Additionally, the method may include transmitting the at least one control code to the health maintenance device. Further, the health maintenance device may be configured to be adjusted based on the at least one control code.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/11 A63B24/00 G06F19/00 G09B19/00 (Advanced/Invention)
CPC: G09B19/00 G09B19/0092 A61B5/0002 G06K9/00342 G16H40/63 G09B19/0038 A61B5/1118 A61B5/6895



Family:

Publication number	Publication date	Application number	Application date
US2017345332 AA	20171130	US20170602937	20170523

Priority:

US20160340667P 20160524 US20170602937 20170523

Probable Assignee:

OBAY RODNEY

Assignee(s): (std):

OBAY RODNEY

Inventor(s): (std):

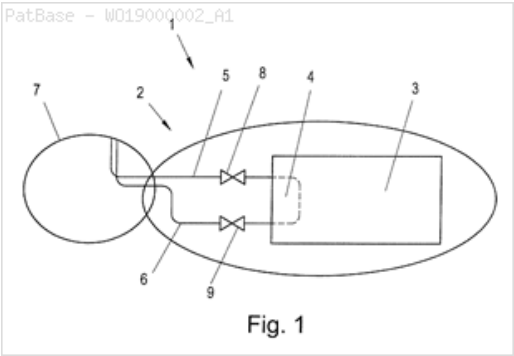
OBAY RODNEY

Title: PATIENT **SIMULATOR**

Abstract: The invention relates to a patient **simulator** (1), in particular a premature baby **simulator**, newborn baby **simulator** or child **simulator**, comprising: a thorax replica (2), which has a rib cage replica having at least one rib cage element which can be raised and lowered to simulate raising and lowering of the rib cage; an abdomen mechanism which has an abdomen replica having at least one abdomen element which can be raised and lowered to simulate raising and lowering of the abdomen; a **lung simulator** (3); an anatomical trachea replica (5) opening into a cavity (4); an anatomical oesophagus replica (6) opening into a cavity; and a control device (14). The patient **simulator** (1) has at least one sensor, the sensor data of which are fed to the control device (14) to detect whether ventilating gas fed to the patient **simulator** (1) passes into the trachea replica (5) or into the oesophagus replica (6).

Classifications:

International (IPC 8-9): G09B23/28 G09B23/32 (Advanced/Invention);
G09B9/00 (Advanced/Non-invention)
CPC: G09B23/32 G09B23/288 G09B9/00



Family:

Publication number	Publication date	Application number	Application date
AT520146 A1	20190115	AT20170000271	20170628
WO19000002 A1	20190103	WO2018AT00060	20180626

Priority:

AT20170000271 20170628

Probable Assignee: SIMCHARACTERS GMBH

Assignee(s): (std): SIMCHARACTERS GMBH

Inventor(s): (std): EHN BERNHARD ; HALLER MICHAEL ; JAGOS HARALD ; SCHWINDT JENS CHRISTIAN

Agent(s): KESCHMANN MARC

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

Title: MEDICAL PHYSIOLOGICAL **SIMULATOR** INCLUDING A CONDUCTIVE ELASTOMER LAYER

Abstract: Conductive elastomeric circuits are used in various simulated physiological structures such as tissues and organs, enabling feedback to be provided indicating whether a simulated task is being performed correctly. For example, a surgical trainer has a simulated human tissue structure made of an elastomeric composition, at least one reinforcing layer of a fibrous material, and at least one flexible electrical circuit. The surgical trainer preferably includes multiple areas for practicing surgical skills, each with evaluation circuits for providing feedback regarding that skill. Conductive elastomers are also incorporated into other types of medical training **simulators**, to similarly provide feedback. In another embodiment, a simulated organ has a conductive elastomeric circuit in the periphery of the simulated organ, enabling feedback to be provided to evaluate whether a person is properly manipulating the organ in response to a manual applied pressure.

Classifications:

International (IPC 8-9): F41G3/26 G09B23/28

G09B23/30 (Advanced/Invention);

G09B23/00 (Core/Invention);

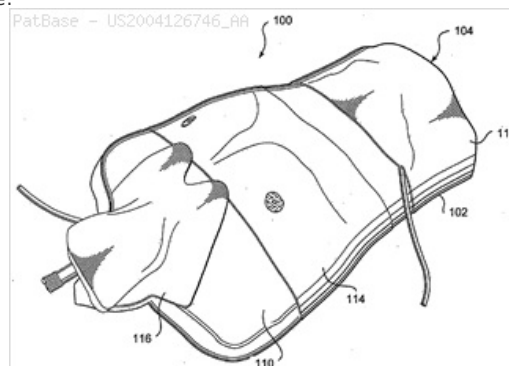
A61B (Subclass/Invention)

International (IPC 1-7): A61B F41G3/26 G09B23/28 G09B23/30

CPC: G09B23/28 G09B23/285 G09B23/30

European: G09B23/28 G09B23/28E G09B23/30

US: 434/262 434/262P 434/267 434/267P 434/267S 434/272



Family:

Publication number	Publication date	Application number	Application date
AU2002236681 AA	20020521	AU20020236681	20011022
AU2002236681 BB	20060105	AU20020236681	20011022
AU2002236681 A1	20020521	AU20020036681	20011022
AU2002236681 A5	20020521	AU20020036681	20011022
CA2426319 AA	20030422	CA20012426319	20011022
EP1337990 A2	20030827	EP20010986226	20011022
EP1337990 A4	20060125	EP20010986226	20011022
EP1695325 A2	20060830	EP20040796642	20041028
EP1695325 A4	20141015	EP20040796642	20041028
US2004126746 AA	20040701	US20030718492	20031120
US2005026125 AA	20050203	US20040932407	20040901
US2005181342 AA	20050818	US20050101776	20050407
US2009061404 AA	20090305	US20080265207	20081105
US2009068627 AA	20090312	US20080272087	20081117
US2012034587 AA	20120209	US20110274251	20111014
US6780016 BA	20040824	US20000695380	20001023
US7665995 BB	20100223	US20050101776	20050407
US7850454 BB	20101214	US20040932407	20040901
US7857626 BB	20101228	US20030718492	20031120
US8162668 BB	20120424	US20080265207	20081105
US8323029 BB	20121204	US20080272087	20081117
US8556635 BB	20131015	US20110274251	20111014
WO0238039 A2	20020516	WO2001US51286	20011022
WO0238039 A3	20021010	WO2001US51286	20011022
WO05051166 A2	20050609	WO2004US35800	20041028
WO05051166 A3	20060713	WO2004US35800	20041028
WO06110291 A2	20061019	WO2006US10799	20060324
WO06110291 A3	20090423	WO2006US10799	20060324

Priority:

US20000695380 20001023	WO2001US51286 20011022	US20030718492 20031120
US20040932407 20040901	WO2004US35800 20041028	US20050101776 20050407
US20080265207 20081105	US20080272087 20081117	US20110274251 20111014

Probable Assignee: SIMULAB CORP

Assignee(s): (std): CHRISTOPHER C TOLY ; SIMULAB CORP ; TOLY CHRISTOPHER ; TOLY CHRISTOPHER C

Inventor(s): (std): CHRISTOPHER C TOLY ; TOLY CHRISTOPHER ; TOLY CHRISTOPHER C

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; SMART AND BIGGAR; LAW OFFICES OF RONALD M ANDERSON; RONALD M; LAW OFFICE OF RONALD M ANDERSON; LEE AND HAYES PLLC; KING MICHAEL

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 KN KP KR KZ LC LI 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

Title: **SYSTEMS** AND METHODS FOR ALTERING VESTIBULAR BIOLOGY

Abstract: The present invention relates to **systems** and methods for management of brain and body functions and sensory perception. For example, the present invention provides **systems** and methods of sensory substitution and sensory enhancement (augmentation) as well as motor control enhancement. The present invention also provides **systems** and methods of treating diseases and conditions, as well as providing enhanced **physical** and mental health and performance through sensory substitution, sensory enhancement, and related effects. In particular, the present invention provides **systems** and methods for altering vestibular biology to, among other things, treat diseases and conditions or enhance performance related to vestibular functions.

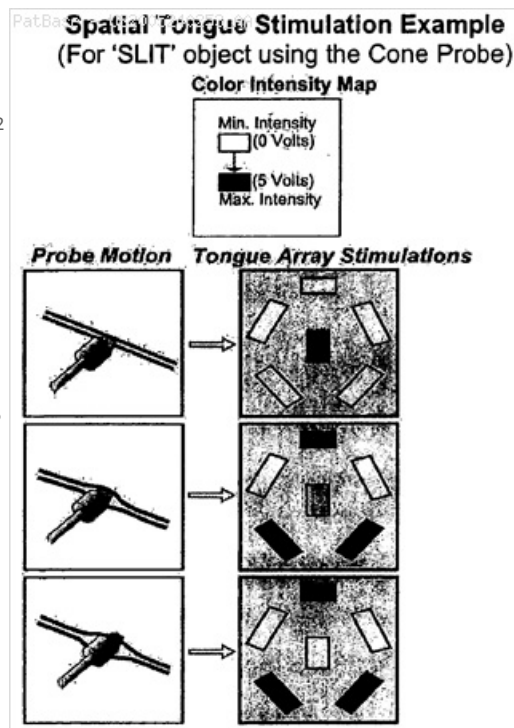
Classifications:

International (IPC 8-9): A61B19/00 A61B5/00 A61B5/05 A61B5/055 A61B5/103 A61B5/11 A61B5/117 A61B5/16 A61B9/00 A61F11/00 A61F4/00 A61F5/00 A61F5/58 A61F9/00 A61F9/08 A61H39/04 A61H99/00 A61M21/00 A61M21/02 A61M25/00 A61N1/00 A61N1/04 A61N1/05 A61N1/06 A61N1/08 A61N1/18 A61N1/20 A61N1/32 A61N1/36 B63C11/02 G08B6/00 (Advanced/Invention); A61B5/05 A61B5/055 A61M21/00 A61M21/02 G09B21/06 (Advanced/Non-invention); A61B5/05 A61B5/103 A61N1/00 A61N1/04 A61N1/08 A61N1/18 (Core/Invention); A61B5/055 (Core/Non-invention); A61K (Subclass/Invention)

International (IPC 1-7): A61B5/103 A61B5/117 A61K A61N1/04 A61N1/06 A61N1/08 A61N1/20 A61N1/32

CPC: A61B5/6803 A61B5/686 A61M21/00 A61B5/112 A61B5/1123 A61B5/4519 A61B5/4528 A61B5/486 A61B5/682 A61B5/7225 A61B5/726 A61B2562/0209 A61F9/08 A61F11/00 A61M2021/0022 A61M2021/0027 A61M2021/0044 A61M2210/0643 A61N1/36025 A61N1/36082 A61N1/36103 G06F3/015 A61B5/14553 G06F3/011 G06F3/012 G06F3/016 A61B5/4023 A61B5/4005 A61B5/4047 A61N1/0548 A61B5/1124 A61B2562/046 A61B5/0492 A61B5/7455 A61B5/7475 A61B5/11 A61N1/36014 G06F3/03547 G06F3/038 G06F3/0383 A61B5/055 A61B5/1116 A61N1/05 A61N1/36046 A61N1/36067

European: A61B5/0492 A61B5/11 A61B5/11U A61B5/48S A61B5/68B2B5 A61M21/00 A61N1/36 A61N1/36E A61N1/36Z A61N1/36Z3G G06F3/01B G06F3/01B2 G06F3/01B8 G06F3/01F K61B5/11P K61B5/11R K61B5/11T K61B5/1455N4 K61B5/45F K61B5/45K K61B5/72F K61B5/72K10D K61B562/02B K61B562/04D K61F11/00 K61F9/08 K61M21/00A4 K61M21/00A5 K61M21/00A6 K61M21/06D6 K61N1/05 K61N1/36E K61N1/36E6 K61N1/36V K61N1/36Z K61N1/36Z3E **US:** 600/554 600/554S 600/595 600/595P 600/595S 607/134 607/134P 607/2 607/2P 607/45 607/45P 607/54 607/54P 607/62 607/62S



Family:

Publication number	Publication date	Application number	Application date
CA2547445 AA	20060526	CA20042547445	20041126
CA2547445 C	20090310	CA20042547445	20041126
CA2648286 AA	20050609	CA20042648286	20041126
EP1691766 A2	20060823	EP20040817912	20041126
EP1691766 A4	20110323	EP20040817912	20041126
JP2007518469 T2	20070712	JP20060541468T	20041126
US2005240253 AA	20051027	US20050033246	20050111
US2006161218 AA	20060720	US20050234453	20050923
US2006241718 AA	20061026	US20050234457	20050923
US2007250119 AA	20071025	US20070657376	20070124
US2008009772 AA	20080110	US20050234635	20050923
US2008228239 AA	20080918	US20070926135	20071029
US2009312808 AA	20091217	US20070926124	20071029
US2009312817 AA	20091217	US20070925393	20071026
US2009326604 AA	20091231	US20040998222	20041126
US2015290453 AA	20151015	US20150692412	20150421
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WO05051329 A2	20050609	WO2004US39754	20041126
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Priority:

US20030525359P	20031126	US20040605988P	20040831	US20040615305P	20041001
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Probable Assignee: WICAB INC

Assignee(s): (std): BACH Y RITA PAUL ; DANILOV YURI PETROVICH ; TYLER MITCHELL EUGENE ; WICAB INC

Inventor(s): (std): DANILOV YURI P ; DANILOV YURI PETROVICH ; HOGLE RICHARD ; LEDERER SCOTT ; BACH Y RITA JUANA E ; BACH Y RITA PAUL ; TYLER MITCHELL E ; TYLER MITCHELL EUGENE

Inventor(s): BACH Y RITA JUANA ESTHER ; DANILOV YURI ; TYLER MITCHELL ; BACH Y RITA JUANA

Agent(s): SMART AND BIGGAR; OSAKABE SUGURU; SHIMIZU HATSUSHI; MARY ANN BROWN, MEDLEN AND CARROLL

LLP; MARY ANN BROWN MEDLEN AND CARROLL LLP; MEDLEN AND CARROLL LLP, SUITE 350; MEDLEN AND CARROLL LLP SUITE 350; MEDLEN AND CARROLL LLP; CASIMIR JONES SC

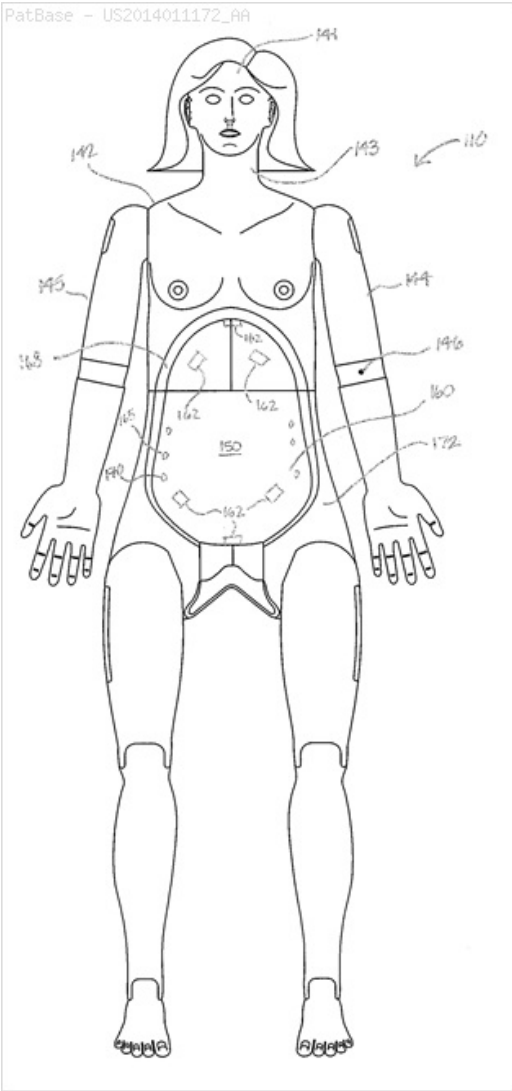
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Title: SURGICAL SIMULATION **MODELS**, MATERIALS, AND METHODS

Abstract: Devices, **systems**, and methods appropriate for use in medical training using a patient **simulator**, various anatomical inserts, and an integrated camera and computer **system** are disclosed. In some instances, a surgical **simulator** is provided that includes a uterine assembly. The uterine assembly simulates the appearance and feel of natural tissue and includes a plurality of materials arranged and dimensioned to simulate anatomic structures such as a right fallopian tube, a left fallopian tube, a right ovary, a left ovary, a uterus having a cervix, a bladder, ureters, a peritoneum, a uterine artery, a uterine vein, a plurality of ligaments, an ovarian artery, an ovarian vein, a perineum, and a vagina. In some implementations, at least the uterine artery, uterine vein, ovarian artery, and ovarian vein are in communication with a fluid supply such that each is pressurized with a blood-like fluid to simulate natural arteries and veins.

Classifications:

International (IPC 8-9): G09B23/28 G09B23/30 G09B23/32
G09B23/34 (Advanced/Invention)
CPC: G09B23/34 G09B23/32 G09B23/30 G09B23/281 G09B23/285
G09B23/288
US: 1/1 434/273



Family:

Publication number	Publication date	Application number	Application date
US2014011172 AA	20140109	US20130752242	20130128
US2015371560 AA	20151224	US20150840379	20150831
US2019012934 AA	20190110	US20180124484	20180907
US9123261 BB	20150901	US20130752242	20130128
US10074292 BB	20180911	US20150840379	20150831

Priority:

US20120591857P 20120128 US20130752242 20130128 US20150840379 20150831
US20180124484 20180907

Probable Assignee: GAUMARD SCIENTIFIC CO INC
Assignee(s): (std): GAUMARD SCIENT CO INC
Assignee(s): GAUMARD SCIENTIFIC CO INC
Inventor(s): (std): LOWE SIOBHAIN
Agent(s): HAYNES AND BOONE LLP

Title: DEVICE FOR SIMULATING VARIABLE **LUNG** COMPLIANCE

Abstract: Device for simulating variable **lung** compliance, comprising a structure having two main components (3, 4) between which an artificial **lung** (1) is situated, the main components (3, 4) being adapted to be moved away from each other by the **lung** (1) when the **lung** is inflated and are adapted to move towards one another to force air out of the **lung** (1) in an exhalation phase; and a biasing means (17, 18) acting to provide a force that acts to move the two main parts (3, 4) towards one another. The biasing means comprises at least one spring (17, 18), which is selectively attachable to impose the force, upon actuation by a spring holding mechanism (22, 32).

Classifications:

International (IPC 8-9): A47F8/00 A61B5/00 A63H3/00 A63H3/46 G06F19/00 G09B23/28 G09B23/30 G09B23/32 G09B9/00

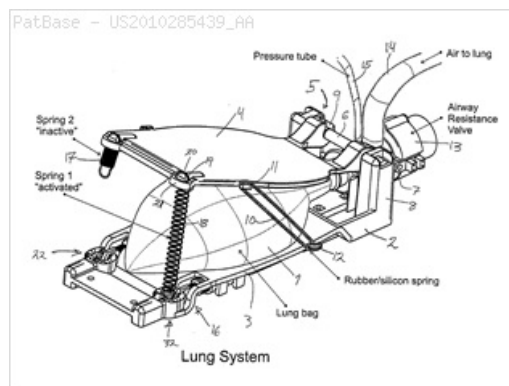
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A47F8/00 A63H3/00 G09B23/00 H05K7/20 (Core/Invention)

CPC: G09B23/32 G09B23/28 A61B5/0002 G09B23/288 G09B23/30 H05K7/20509 G16H40/63

European: G09B23/28W G09B23/30 G09B23/32 H05K7/20F6

US: 434/262 434/267 434/267P 434/272 434/272P 600/301



Family:

Publication number	Publication date	Application number	Application date
AU2009203223 AA	20090716	AU20090203223	20090109
AU2009203223 BB	20131114	AU20090203223	20090109
AU2009203224 AA	20090716	AU20090203224	20090109
AU2009203224 BB	20140220	AU20090203224	20090109
CN101911151 A	20101208	CN200980101522	20090109
CN101911151 B	20121128	CN200980101522	20090109
CN101911152 A	20101208	CN200980101574	20090109
CN101911152 B	20120822	CN200980101574	20090109
DE602009032326 D1	20150903	DE200960032326T	20090109
EP2243129 A1	20101027	EP20090700496	20090109
EP2243129 A4	20140521	EP20090700496	20090109
EP2243129 B1	20181031	EP20090700496	20090109
EP2243130 A1	20101027	EP20090700225	20090109
EP2243130 A4	20140611	EP20090700225	20090109
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JP2011509438 T2	20110324	JP20100542187T	20090109
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JP5303573 B2	20131002	JP20100542188T	20090109
NO20080200 A	20090713	NO20080000200	20080111
NO20080201 A	20090713	NO20080000201	20080111
NO20080206 A	20090713	NO20080000206	20080111
US2010285439 AA	20101111	US20090810034	20090109
US2010285439 AA	20101111	US20100810034	20100109
US2010285439 AA	20101111	US20090810034	20090109
US2010291523 AA	20101118	US20090810039	20090109
US2012034588 A9	20120209	US20090810034	20090109
US8764451 BB	20140701	US20090810034	20090109
US8851898 BB	20141007	US20090810039	20090109
WO09088303 A1	20090716	WO2009NO00010	20090109
WO09088304 A1	20090716	WO2009NO00011	20090109
WO09088305 A1	20090716	WO2009NO00012	20090109

Priority:

NO20080000200	20080111	NO20080000206	20080111	NO20080000201	20080111
US20080006439P	20080114	US20080006439	20080114	EP20090700225	20090109
WO2009NO00011	20090109	WO2009NO00012	20090109	US20090810039	20090109
US20090810034	20090109	WO2009NO00011	20100109		

Probable Assignee: LAERDAL MEDICAL AS

Assignee(s): (std): EGELANDSDAL EINAR ; ELDEN TOR ; GOMO OEYSTEIN ; GOMO OYSTEIN ; HOSKINS IAN ; LAERDAL MEDICAL AS ; MESTAD EINAR

Inventor(s): (std): EGELANDSDAL EINAR ; EINAR EGELANDSDAL ; EINAR MESTAD ; ELDEN TOR ; GOMO OEYSTEIN ; HOSKINS IAN ; MESTAD EINAR ; OEYSTEIN GOMO ; TOR ELDEN ; GOMO OYSTEIN

Inventor(s): OYSTEIN GOMO

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; TOFTING ARILD; PROTECTOR IP CONSULTANTS AS; MINDREBOEE KRISTER; WINSTEAD PC

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

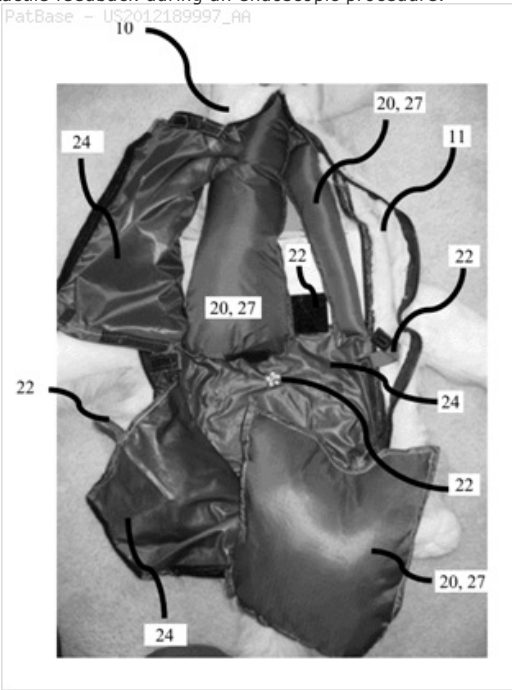
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NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM
TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FLEXIBLE AND RIGID ENDOSCOPIC TRAINING DEVICE (FRED)

Abstract: An anatomically realistic **model** for training minimally invasive procedures. The **model** includes an outer shell resembling the appropriate animal or human being with openings for accessing the interior cavity of the shell. Modules within the interior cavity are operably connected to the openings to permit external access to the modules. The modules comprise different mechanical components configured to represent an organ or anatomical feature. Spacers within the interior cavity provide structure and maintain placement of the modules and sufficiently realistic tactile feedback during an endoscopic procedure.

Classifications:

International (IPC 8-9): A61B1/00 G09B23/28
G09B23/30 (Advanced/Invention);
G09B23/36 (Advanced/Non-invention)
CPC: G09B23/281 G09B23/288 G09B23/36 G09B23/285 G09B23/30
European: G09B23/28E G09B23/30
US: 1/1 434/267 434/267P



Family:

Publication number	Publication date	Application number	Application date
US2012189997 AA	20120726	US20100496244	20100917
US9437118 BB	20160906	US20100496244	20100917
WO11035088 A2	20110324	WO2010US49218	20100917
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Priority:

US20090243567P 20090918 US20100496244 20100917 WO2010US49218 20100917

Probable Assignee: OF TENNESSEE RESEARCH FOUNDATION UNIV

Assignee(s): (std): UNIV OF TENNESSEE RES FOUND ; UNIV TENNESSEE RES FOUND ; UNIV TENNESSEE RES FOUNDATION ; KOTTKAMP KATHERINE C ; WHITTEMORE JACQUELINE C

Assignee(s): OF TENNESSEE RESEARCH FOUNDATION UNIV ; UNIVERSITY OF TENNESSEE RESEARCH FOUNDATION

Inventor(s): (std): KOTTKAMP KATHERINE C ; WHITTEMORE JACQUELINE C

Agent(s): SALIWANCHIK LLOYD AND EISENSCHENK; EISENSCHENK FRANK C 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 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 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

Title: **LUNG SIMULATOR**

Abstract: A **lung simulator** is based on a subwoofer by attaching an enclosure having a variable outlet to the subwoofer basket to simulate the **lung** capacity and using the movement of the diaphragm to simulate the breathing of a patient.

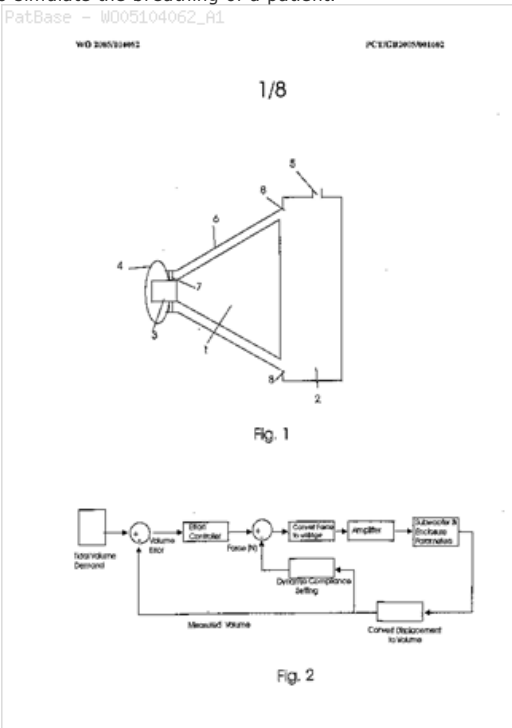
Classifications:

International (ipc 8-9): G09B23/28 (Advanced/Invention);
G09B23/00 (Core/Invention)

International (ipc 1-7): G09B23/28

CPC: G09B23/288

European: G09B23/28W



Family:

Publication number	Publication date	Application number	Application date
GB200409282 A0	20040602	GB20040009282	20040427
WO05104062 A1	20051103	WO2005GB01602	20050427

Priority:

GB20040009282 20040427

Probable Assignee: KING S COLLEGE LONDON

Assignee(s): (std): EDWARDS MARK ; KING S COLLEGE LONDON ; LEE KA LOK CARROLL

Assignee(s): KINGS COLLEGE LONDON

Inventor(s): (std): LEE KA LOK CARROLL ; EDWARDS MARK

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 MA MC MD MG MK ML MN MR MW MX MZ NA NE 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

Title: CARDIAC SIMULATION DEVICE

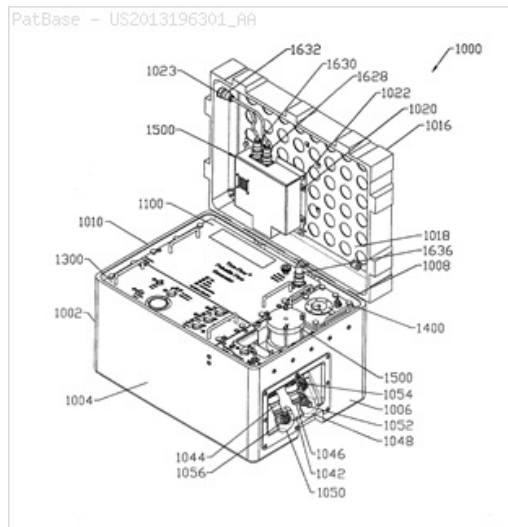
Abstract: The present invention describes a device and **system** for simulating normal and disease state cardiac functioning, including an anatomically accurate left cardiac **simulator** for training and medical device testing. The **system** and device uses pneumatically pressurized chambers to generate ventricle and atrium contractions. In conjunction with the interaction of synthetic mitral and aortic valves, the **system** is designed to generate pumping action that produces accurate volume fractions and pressure gradients of pulsatile flow, duplicating that of a human heart. Through the use of a remote handheld electronic controller and manual adjustments from a main control panel, the air pressure level, fluidic pressure, and heart rate is controlled to induce contractions that simulate a wide variety of heart conditions ranging from normal heart function to severely diseased or injured heart conditions.

Classifications:

International (IPC 8-9): A61B34/10 G09B23/28 G09B23/30 G09B23/32 G09B9/00 (Advanced/Invention)

CPC: G09B23/28 G09B23/303 G09B23/306 G09B23/281 G09B23/288 G09B23/30 G09B23/32

US: 1/1 434/262 434/265 434/268 434/272



Family:

Publication number	Publication date	Application number	Application date
AU2013215034 AA	20130808	AU20130215034	20130131
AU2013215034 BB	20170330	AU20130215034	20130131
AU2015296000 AA	20170223	AU20150296000	20150731
CA2863534 AA	20140731	CA20132863534	20130131
CA2863534 C	20180130	CA20132863534	20130131
CA2956923 AA	20170131	CA20152956923	20150731
DE602013028058 D1	20171130	DE201360028058T	20130131
EP2810270 A1	20141210	EP20130705646	20130131
EP2810270 B1	20171018	EP20130705646	20130131
EP3175438 A1	20170607	EP20150751196	20150731
ES2666598 T3	20180507	ES20130705646T	20130131
JP2015507225 T2	20150305	JP20140555708T	20130131
JP2017531838 T2	20171026	JP20170526484T	20150731
JP6395609 B2	20180926	JP20140555708T	20130131
US2013196301 AA	20130801	US20120363251	20120131
US2016027345 AA	20160128	US20150815629	20150731
US9183763 BB	20151110	US20120363251	20120131
US10229615 BB	20190312	US20150815629	20150731
WO13116519 A1	20130808	WO2013US24144	20130131
WO16019331 A1	20160204	WO2015US43278	20150731

Priority:

US20120363251 20120131 EP20130705646 20130131 WO2013US24144 20130131
 US20140031628P 20140731 US20150815629 20150731 WO2015US43278 20150731

Probable Assignee: VASCULAR SIMULATIONS LLC

Assignee(s): (std): LIEBER BARUCH B ; SADASIVAN CHANDRAMOULI ; ROMAO MICHAEL ; WOO HENRY ; VASCULAR SIMULATIONS LLC ; SADASIVAN CHANDRAMOULI ; ROMEO MICHAEL ; CARSON DAVID JEFFREY ; FIORELLA DAVID ; FIORELLA DAVID JOHN ; WOO HENRY HEESANG

Assignee(s): WOO MD HENRY ; VASCULAR SIMULATIONS LLC WILMINGTON ; VASCULAR SIMULATIONS INC ; KEPPELER KARL ; VASCULAR SIMULATIONS LLC1209 ORANGE STREETCORPORATION TRUST CENTERWILMINGTONDE19801US ; BUNCH GARY

Inventor(s): (std): LIEBER BARUCH B ; SADASIVAN CHANDRAMOULI ; FIORELLA DAVID ; ROMAO MICHAEL ; WOO HENRY ; CARSON DAVID JEFFREY ; SADASIVAN CHANDRAMOULI ; WOO JEMRY ; ROMEO MICHAEL ; FIORELLA DAVID JOHN ; WOO HENRY HEESANG ; WOO MD HENRY ; KEPPELER KARL ; BUNCH GARY ; WOO M D HENRY

Inventor(s): WOO MD ; CARSON DAVID JEFFREY STUART ; LIEBER BARUCH B AVENTURA ; SADASIVAN CHANDRAMOULI WILMINGTON ; FIORELLA DAVID EAST SETAUKET ; WOO HENRY SETAUKET ; ROMEO MICHAEL PORT ST LUCIE ; LIEBER BARUCH BUS ; CARSON DAVID JEFFREYUS ; FIORELLA DAVIDUS ; SADASIVAN CHANDRAMOULIUS ; WOO HENRYUS ; ROMEO MICHAELUS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FINLAYSON AND SINGLEHURST; PATENTANWALTE DR KELLER SCHWERTFEGER; TAYLOR KATE LAURA; ELZABURU SLP ELZABURU SLP; LEXT

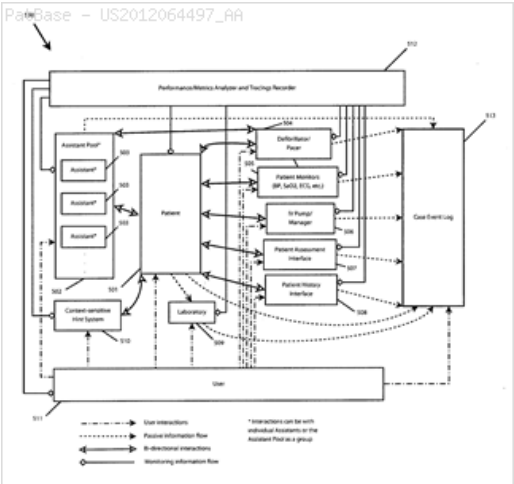
PC; MCHALE AND SLAVIN PA; CAMPBELL A KEITH ET AL; ZELNER DAVID J ET AL

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

Title: PATIENT RESUSCITATION SIMULATION TRAINING AND PERFORMANCE TRACKING **SYSTEM**

Abstract: The method and apparatus disclosed herein are directed to patient resuscitation simulation training and performance tracking. The disclosed method and apparatus includes a high-fidelity **simulator** with a real-time engine that can simulate real life situations and conditions for training and testing. The **simulator** also uses an infinitely-variable constraint-based real-time engine to eliminate the issue of "script memorization" by making each case random and/or unique. The **simulator** can also train users to recognize the characteristics of properly executed resuscitation interventions such as chest compressions and oxygen mask bagging techniques.

Classifications:
International (IPC 8-9): G09B23/28 (Advanced/Invention)
CPC: G09B23/288 G09B23/30
European: G09B23/28W G09B23/30
US: 434/265 434/265P



Family:

Publication number	Publication date	Application number	Application date
US2012064497 AA	20120315	US20110086844	20110414

Priority:

US20100324095P 20100414 US20110086844 20110414

Probable Assignee: WU RAYMOND BING RAY
Assignee(s): (std): WU RAYMOND BING RAY
Inventor(s): (std): WU RAYMOND BING RAY

Title: RESPIRATION **SIMULATOR**

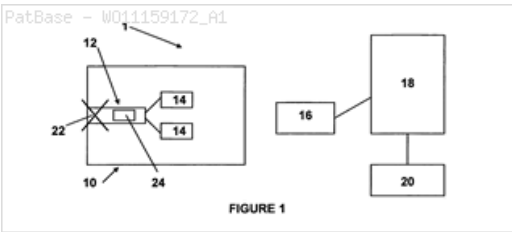
Abstract: The invention provides a **system** and method for simulating the supply of oxygen to a patient. The **system** includes means for monitoring the pressure inside an artificial airway or **lungs** and means for determining an oxygen content of the bloodstream for a patient that would result from the detected pressure. The invention is particularly useful in training and assessing performance in cricothyrotomy procedures.

Classifications:

International (IPC 8-9): G09B23/28 G09B23/30 (Advanced/Invention)

CPC: G09B23/288 G09B23/30

European: G09B23/28W G09B23/30



Family:

Publication number	Publication date	Application number	Application date
WO11159172 A1	20111222	WO2011NZ00106	20110614

Priority:

NZ20100586137 20100614

Probable Assignee: AIRWAY LTD

Assignee(s): (std): AIRWAY LTD ; BAKER PAUL

Assignee(s): AIRWAY LIMITED

Inventor(s): (std): BAKER PAUL

Agent(s): BALDWIN'S INTELLECTUAL PROPERTY

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 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

Title: LEARNING ASSEMBLY AND INFANT TORSO **SIMULATOR** FOR LEARNING THE ACT OF **RESPIRATORY** KINESITHERAPY

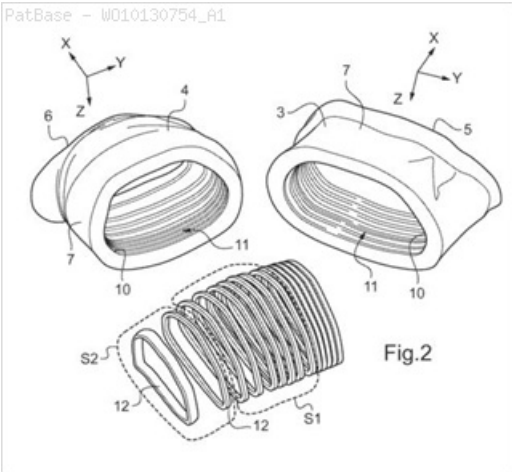
Abstract: The invention relates to an infant torso **simulator** for learning the act of **respiratory** kinesitherapy, comprising a torso body (2) characterised in that said torso body (2) is deformable in a sagittal plane (X, Z) and in that the inner portion (10) of said torso body (2) has a plurality of recesses (11) configured so as to facilitate the deformation of the torso body (2) in a longitudinal direction (X) during the performance of a **respiratory** kinesitherapy act. The invention also relates to a learning assembly characterised in that it comprises a torso **simulator** such as described above and a pair of gloves (13) provided with pressure sensors (14) and motion sensors.

Classifications:

International (IPC 8-9): A61H37/00 G09B23/28 (Advanced/Invention)

CPC: G09B23/288

European: G09B23/28W



Family:

Publication number	Publication date	Application number	Application date
BRPI1014268 A2	20160412	BR2010PI14268	20100511
DE602010034471 D1	20160818	DE201060034471T	20100511
EP2430628 A1	20120321	EP20100721440	20100511
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FR2945656 A1	20101119	FR20090002308	20090513
FR2945656 B1	20150327	FR20090002308	20090513
PT2430628 T	20161006	PT20100721440T	20100511
WO10130754 A1	20101118	WO2010EP56492	20100511

Priority:

FR20090002308 20090513 EP20100721440 20100511 WO2010EP56492 20100511

Probable Assignee: UNIV SAVOIE

Assignee(s): (std): BARTHOD CHRISTINE ; DE SAVOIE UNIV ; MARECHAL LUC ; UNIV SAVOIE

Assignee(s): UNIVERSITE DE SAVOIE

Inventor(s): (std): BARTHOD CHRISTINE ; MARECHAL LUC ; LUC MARECHAL ; CHRISTINE BARTHOD

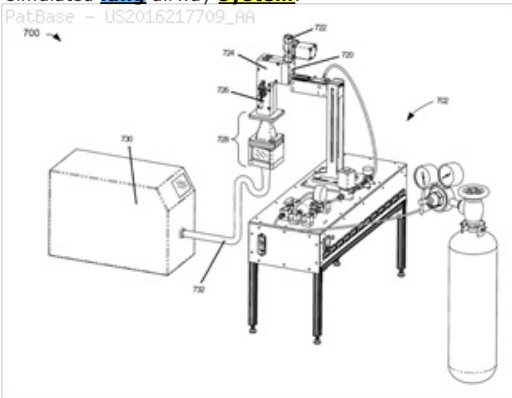
Agent(s): CROONENBROEK THOMAS JAKOB; LEHMANN MARIA ISABEL; CABINET INNOVINCIA; CROONENBROEK THOMAS ET AL

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 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

Title: **RESPIRATORY SYSTEM SIMULATOR**

Abstract: An apparatus that simulates a **respiratory system** for characterizing particle delivery within **lungs** by an inhaler within **lungs** is shown and described. The **respiratory system simulator** comprises a simulated oral cavity to receive an aerosol, a simulated oropharynx cavity, a simulated **lung** airway **system** and a breath **simulator**. The simulated oral cavity is configured to receive a flow of particles and direct the flow to the simulated oropharynx cavity. The simulated oropharynx cavity is configured to receive a flow from the simulated oral cavity and direct the flow to a simulated trachea cavity. The simulated trachea cavity directs the flow to the simulated **lung** airway **system**. The simulated **lung** airway **system** comprises a plurality of bronchial airway generations simulating bronchial airway generations of a **lung** or **lungs**. The **respiratory system simulator** may be maintained at or near humidity and temperature levels within a **respiratory system**. The breath **simulator** interface is in fluid communication with the rest of the **respiratory system simulator** and configured to control a flow through the simulated oropharynx cavity, the simulated trachea airway cavity, and the simulated **lung** airway **system**.

Classifications:
International (IPC 8-9): G09B23/30 (Advanced/Invention)
CPC: G09B23/30
US: 434/267



Family:

Publication number	Publication date	Application number	Application date
CA3012040 AA	20180719	CA20163012040	20160122
US2016217709 AA	20160728	US20160004865	20160122
WO16118935 A1	20160728	WO2016US14638	20160122

Priority:
US20150107374P 20150124 US20150245817P 20151023 US20160004865 20160122
WO2016US14638 20160122

Probable Assignee: INNOVOSCIENCES LLC
Assignee(s): (std): INNOVOSCIENCES LLC
Assignee(s): MINSKOFF NOAH MARK
Inventor(s): (std): MINSKOFF NOAH MARK
Agent(s): GOWLING WLG CANADA LLP; GREENWALD URI M
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

Title: PATIENT **SIMULATOR**

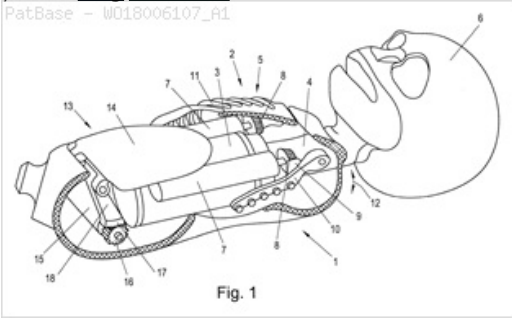
Abstract: The invention relates to a patient **simulator**, in particular a premature baby **simulator**, newborn baby **simulator**, or child **simulator**, comprising a thorax replica, a pneumatic **lung simulator**, and a trachea replica leading to the **lung simulator**, wherein the thorax replica has a rib cage replica having at least one rib cage element that can be raised and lowered for simulating raising and lowering of the rib cage, wherein the at least one rib cage element that can be raised and lowered interacts with a raising and lowering mechanism that can be controlled independently of the **lung simulator**.

Classifications:

International (IPC 8-9): A63H13/00 A63H3/36 G09B23/28

G09B23/32 (Advanced/Invention)

CPC: G09B23/288 A63H13/005 G09B23/285 G09B23/32 A63H3/001 A63H3/003 A63H13/02



Family:

Publication number	Publication date	Application number	Application date
■ AT518851 A1	20180115	AT20160000317	20160705
■ AT518851 B1	20180415	AT20160000317	20160705
■ AU2017292892 AA	20181220	AU20170292892	20170628
■ CA3029852 AA	20190104	CA20173029852	20170628
■ WO18006107 A1	20180111	WO2017AT00053	20170628
■ WO18006107 A8	20190103	WO2017AT00053	20170628

Priority:

AT20160000317 20160705 WO2017AT00053 20170628

Probable Assignee: SIMCHARACTERS GMBH

Assignee(s): (std): SIMCHARACTERS GMBH

Assignee(s): UNGER EWALD ; TANJA NEPOMUCKY ; HALLER MICHAEL ; NEPOMUCKY TANJA ; SCHMOLL MARTIN ; SCHWINDT JENS CHRISTIAN

Inventor(s): (std): HALLER MICHAEL ; NEPOMUCKY TANJA ; SCHMOLL MARTIN ; SCHWINDT JENS CHRISTIAN ; TANJA NEPOMUCKY ; UNGER EWALD

Agent(s): PHILLIPS ORMONDE FITZPATRICK; MARKS AND CLERK; KESCHMANN MARC

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

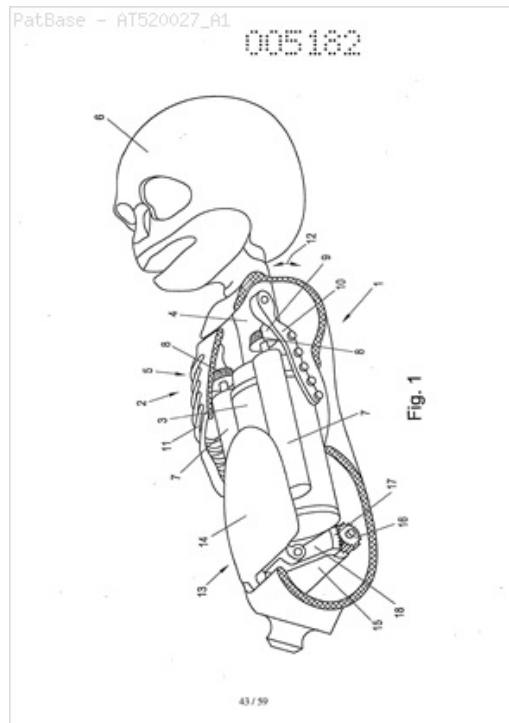
Title: PATIENTENSIMULATOR

Abstract: Source: AT520027B [DE] Bei einem Patientensimulator (1), insbesondere Fruehgeborenen-, Neugeborenen- oder Kindersimulator, umfassend eine Thoraxnachbildung (2), eine Abdomennachbildung (13), einen Stethoskopsimulator (41) und einen Audiogenerator (42) weist die Thoraxnachbildung (2) und die Abdomennachbildung (13) wenigstens zwei Abstandssensoren (43,44,45) auf, die mit einem Stethoskopkopf (46) des Stethoskopsimulators (41) zur Ermittlung der Position des Stethoskopkopfs (46) zusammenwirken, wobei die ermittelten Positionsdaten dem Audiogenerator (42) zufuehrbar sind, wobei der Audiogenerator (42) einen Speicher fuer Audiodateien (53) und eine Verarbeitungseinrichtung zum Abmischen der Audiodateien (53) in Abhaengigkeit von den Positionsdaten zu einem abgemischten Audiosignal aufweist, das einem Ohrhoerer (47) des Stethoskopsimulators (41) zufuehrbar ist.

Classifications:

International (IPC 8-9): G09B23/28 G09B23/30 (Advanced/Invention)

CPC: G09B23/28 G09B23/30



Family:

Publication number	Publication date	Application number	Application date
■ AT520027 A1	20181215	AT20170000387	20160705
■ AT520027 B1	20190215	AT20170000387	20160705

Priority:

AT20170000387 20160705

Probable Assignee:

SIMCHARACTERS GMBH

Assignee(s): (std):

SIMCHARACTERS GMBH

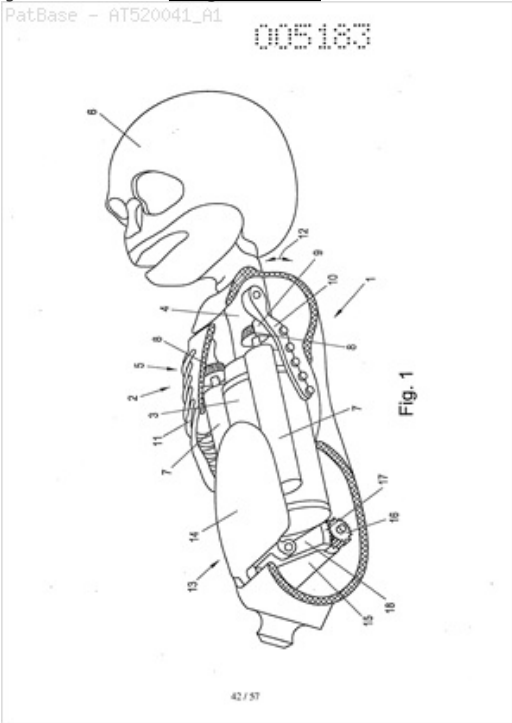
Title: PATIENTENSIMULATOR

Abstract: Source: AT520041B [DE] Bei einem Patientensimulator (1), insbesondere Fruehgeborenen-, Neugeborenen- oder Kindersimulator, umfassend einen **Lungensimulator** (3) und eine Abdomennachbildung (13), die eine heb- und senkbare Bauchplatte (14) aufweist, die von einer Hub- und Senkmechanik (15) angetrieben ist, ist eine Steuervorrichtung dazu eingerichtet, die Bauchplatte (14) anzuheben und gleichzeitig den Beatmungswiderstand des **Lungenmodels** zu erhoehen.

Classifications:

International (IPC 8-9): G09B23/28 G09B23/30 (Advanced/Invention)

CPC: G09B23/288 G09B23/30



Family:

Publication number	Publication date	Application number	Application date
■ AT520041 A1	20181215	AT20170000388	20160705
■ AT520041 B1	20190215	AT20170000388	20160705

Priority:

AT20170000388 20160705

Probable Assignee:

SIMCHARACTERS GMBH

Assignee(s): (std):

SIMCHARACTERS GMBH

Title: INTERACTIVE EDUCATION **SYSTEM** FOR TEACHING PATIENT CARE

Abstract: A patient **simulator system** for teaching patient care is provided. The **system** includes a patient **simulator**. The patient **simulator** includes a patient body comprising one or more simulated body portions. The one or more simulated body portions include at least one simulated finger that is configured to interface with a pulse oximeter to simulate an oxygen saturation of the patient **simulator**. In some instances, the simulated finger is further configured to interface with the pulse oximeter to simulate a pulse rate of the patient **simulator**. In some embodiments, the simulated finger may be calibrated to accurately interface with a particular pulse oximeter. Methods of utilizing the patient **simulator systems**, including the simulated finger for interfacing with a pulse oximeter, are also provided.

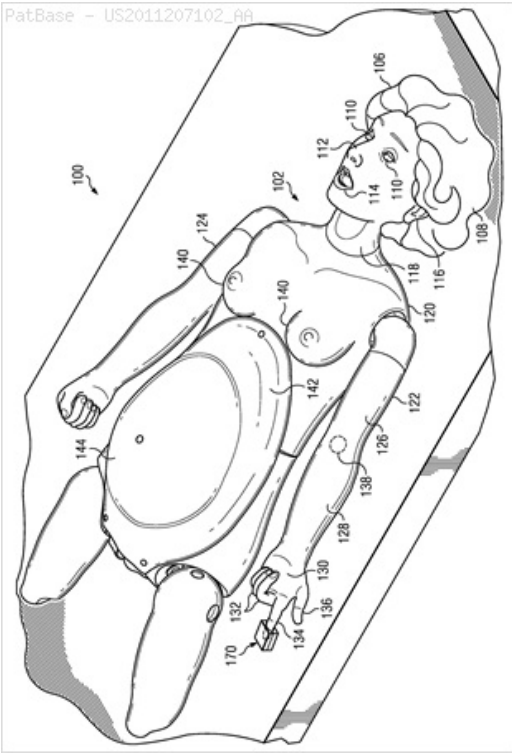
Classifications:

International (IPC 8-9): G09B23/28 G09B23/30 G09B5/00 G09B9/00 (Advanced/Invention)

CPC: G09B23/288 G09B23/30 G09B23/28 G09B23/281

European: G09B23/28 G09B23/28B

US: 434/267 434/267P 434/268



Family:

Publication number	Publication date	Application number	Application date
DE602011047411 D1	20180509	DE201160047411T	20110218
EP2537150 A2	20121226	EP20110745378	20110218
EP2537150 A4	20160413	EP20110745378	20110218
EP2537150 B1	20180411	EP20110745378	20110218
JP2013520688 T2	20130606	JP20120554070T	20110218
JP5855586 B2	20160209	JP20120554070T	20110218
US2011207102 AA	20110825	US20100708659	20100219
US8500452 BB	20130806	US20100708659	20100219
WO11103495 A2	20110825	WO2011US25519	20110218
WO11103495 A3	20120112	WO2011US25519	20110218

Priority:

US20100708659 20100219 EP20110745378 20110218 WO2011US25519 20110218

Probable Assignee: GAUMARD SCIENTIFIC CO INC

Assignee(s): (std): CARVAJAL MIGUEL ENRIQUE ; FERNANDEZ VICTOR I ; GAUMARD SCIENT CO INC ; GAUMARD SCIENT COMPANY INC ; LOWE SIOBHAIN ; TROTTA THOMAS NEIL ; RODRIGUEZ ALBERTO

Assignee(s): GAUMARD SCIENTIFIC COMPANY, INC. ; GAUMARD SCIENTIFIC CO INC MIAMI ; GAUMARD SCIENTIFIC CO INC

Inventor(s): (std): LOWE SIOBHAIN ; TROTTA THOMAS NEIL ; CARVAJAL MIGUEL ENRIQUE ; RODRIGUEZ ALBERTO ; FERNANDEZ VICTOR I

Inventor(s): TROTTA THOMAS NEIL MIAMI

Agent(s): BEETZ AND PARTNER MBB PATENT U RECHTSANWAELTE; FROST ALEX JOHN; BOULT WADE TENNANT; HAYNES AND BOONE LLP; WEBB GREGORY ET AL

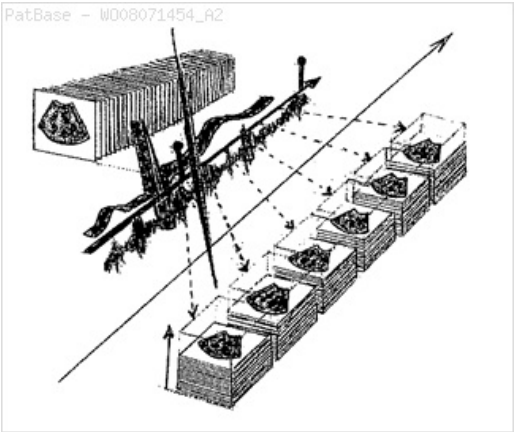
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Title: METHOD AND ARRANGEMENT FOR PROCESSING ULTRASONIC IMAGE VOLUMES AS WELL AS A CORRESPONDING COMPUTER PROGRAM AND A CORRESPONDING COMPUTER-READABLE STORAGE MEDIUM

Abstract: The invention relates to a method and an arrangement for processing ultrasonic image volumes as well as to a corresponding computer program and a corresponding computer-readable storage medium. In the method for processing ultrasonic image volumes, the invention proposes using a transducer of a 3D ultrasound scanner to detect the 3D ultrasonic image volumes, detecting the position and orientation of the transducer while detecting the 3D ultrasonic image volumes, and combining them with the respective SD ultrasonic image volumes detected. Provision is also made for detected SD ultrasonic image volumes to be combined, while evaluating the respective position and orientation, with other detected 3D ultrasonic image volumes to form an extended ultrasonic image volume (meta volume) and to be stored, and/or for the detected 3D ultrasonic image volumes to be stored individually together with the combined data relating to the position and orientation.

Classifications:

International (IPC 8-9): A61B8/00 G01S15/89
G09B23/28 (Advanced/Invention);
A61B8/00 G01S15/00 G09B23/00 (Core/Invention)
CPC: A61B5/1135 A61B5/7207 A61B8/14 A61B8/4254 A61B8/483
A61B8/5253 G01S7/52088 G01S15/8936 G01S15/8993 G09B23/286
European: A61B5/72B2 A61B8/14 A61B8/42D2 A61B8/48D
A61B8/52D6B2 G01S15/89D2A G01S15/89D9 G01S7/52S14B1
G09B23/28R K61B5/113B



Family:

Publication number	Publication date	Application number	Application date
WO08071454 A2	20080619	WO2007EP11211	20071212
WO08071454 A3	20081030	WO2007EP11211	20071212
WO08071454 A9	20090423	WO2007EP11211	20071212

Priority:

DE200610059611 20061212

Probable Assignee: UNBEKANNTE ERBEN NACH HARALD R

Assignee(s): (std): POHL KAY THOMAS ; UNBEKANNTE ERBEN NACH HARALD R

Assignee(s): UNBEKANNTE ERBEN NACH HARALD REINDELL VERTRETEN DURCH DEN NACHLASSPFLEGER RECHTSANWALT U NOTAR POHL KAY THOMAS ; UNBEKANNTE ERBEN NACH HARALD REINDELL VERTRETEN DURCH DEN NACHLASSPFLEGER RECHTSANWALT UND NOTAR POHL KAY THOMAS

Inventor(s): (std): REINDELL HARALD

Agent(s): HENGELHAUPT J D

Designated states: AE AG AL AM 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 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

Title: SIMULATION **SYSTEM** AND METHOD OF USING SAME

Abstract: A simulation **system** includes a computer, and provides a mathematical **model** of the entity under investigation, and includes input apparatus for supplying desired variable change information to the mathematical **model**. The **system** generates **model** simulation information as modified by the variable change information, and controls the changes of the **model** simulation information in correspondence with real time, independently of the computer used. The **system** includes toggling apparatus for activating and deactivating selectively desired subsystems of the mathematical **model**, and is arranged to adjust selectively the number of subsystems and subsystem components of the mathematical **model**. In addition, the **system** allows the user to customize the information displayed about the mathematical **model** while the **model** is running without deactivating the simulation of any activated subsystem or subsystem component. In this regard, the **system** enables **model** subsystems and subsystem components to be easily added, deleted or modified in a user friendly manner. The **system** further enables a user to adjust the number of displayable functional operations of the **system** from a maximum number indicative of all of the relevant functional operations and parameters in the simulated **system** to a minimum number without deactivating the simulation of any subsystem or component included in the simulation process.

Classifications:

International (IPC 8-9): G06F19/00 G09B19/16 G09B23/28

G09B5/14 (Advanced/Invention);

G09B23/00 (Core/Invention)

International (IPC 1-7): A61B5/00 G06F15/42 G06F9/455

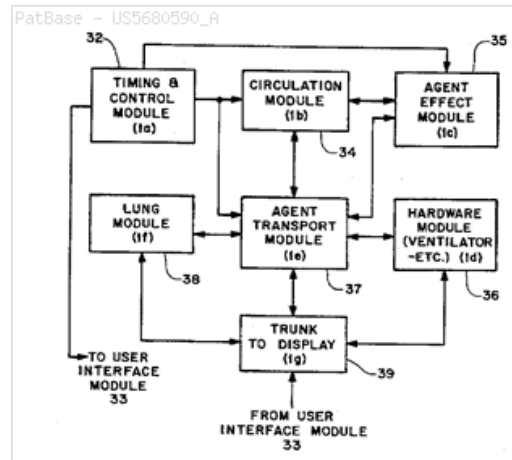
CPC: G16H15/00 G16H50/50 G09B23/28 G09B5/14 G09B19/165

European: G06F19/00A2 G06F19/34H G09B19/16C G09B23/28

G09B5/14 S06F19/34P

US: 364/232.3 364/264.3 364/578 364/933.8 364/DIG.1 364/DIG.2

395/500 703/11 703/2



Family:

Publication number	Publication date	Application number	Application date
AU199183910 A1	19920415	AU19910083910	19910806
US5680590 A	19971021	US19950524004	19950905
WO9204860 A1	19920402	WO1991US05585	19910806

Priority:

US19900586551 19900921 WO1991US05585 19910806 US19920987117 19921204
US19950524004 19950905

Probable Assignee: MEDSIM INC

Assignee(s): (std): MEDSIM INC

Assignee(s): PARTI MICHAEL

Inventor(s): (std): SEBALD ANTHONY V ; PARTI MICHAEL ; GRAY CHARLES G

Inventor(s): CHARLES G GRAY ; ANTHONY V SEBALD ; MICHAEL PARTI

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM DE DK ES FI FR GA GB GN GR HU IT JP KP KR LK LU MC MG
ML MR MW NL NO RO SD SE SN SU TD TG

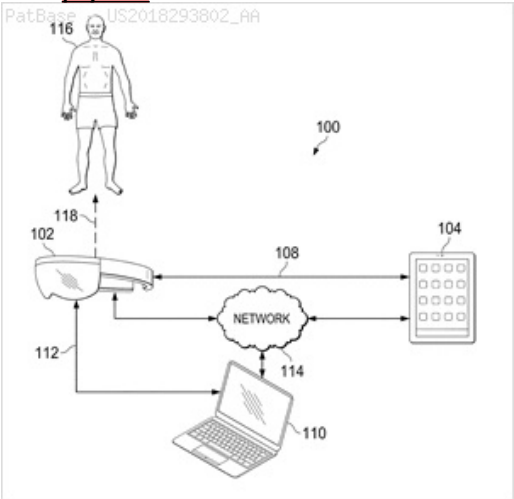
Title: **SYSTEMS** AND METHODS FOR MIXED REALITY MEDICAL TRAINING

Abstract: A method for training a student in medical condition identification and intervention. The method can include the step of providing a mixed reality viewing device, providing a computing device, providing a **physical** object, storing a medical condition scenario in memory of the viewing device, storing the scenario in the memory of the computing device, anchoring a virtual image of at least a portion of a virtual patient on at least a portion of the **physical** object, selecting the scenario, commanding the processor of the computing device to initiate displaying the virtual image in a selected one of a plurality of stages, controlling one or more states and one or more properties of the **physical** object, assessing the student's identification of the one or more virtual critical cues; and assessing the student's identification of the one or more **physical** critical cues.

Classifications:

International (IPC 8-9): G06T19/00 G09B23/28 G09B23/30 G09B5/02 G16H50/00 (Advanced/Invention)

CPC: G06T19/006 H04B7/24 G09B5/02 G09B23/30 G06T2210/41



Family:

Publication number	Publication date	Application number	Application date
US2018293802 AA	20181011	US20180947501	20180406
WO18187748 A1	20181011	WO2018US26560	20180406

Priority:

US20170483171P 20170407 US20180947501 20180406

Probable Assignee: UNVEIL LLC

Assignee(s): (std): UNVEIL LLC

Inventor(s): (std): HENDRICKS JOHN ; HENDRICKS JOHN GERALD ; VAN CLEAVE JASON ; VAN CLEAVE JASON TODD

Agent(s): VANDRAKE VANCE V III ET AL

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

Title: COMBAT MEDICAL **SIMULATORS** AND ASSOCIATED **SYSTEMS** AND METHODS

Abstract: Devices, **systems**, and methods appropriate for use in combat medical training are provided. In some instances, the combat medical **simulators** facilitate training of common field medical techniques including tracheostomy, wound care, tourniquet use, pneumothorax, cardiopulmonary resuscitation, and/or other medical treatments. Further, the combat medical **simulators** have joints that provide realistic ranges of motions to enhance the realism of the training experience.

Classifications:

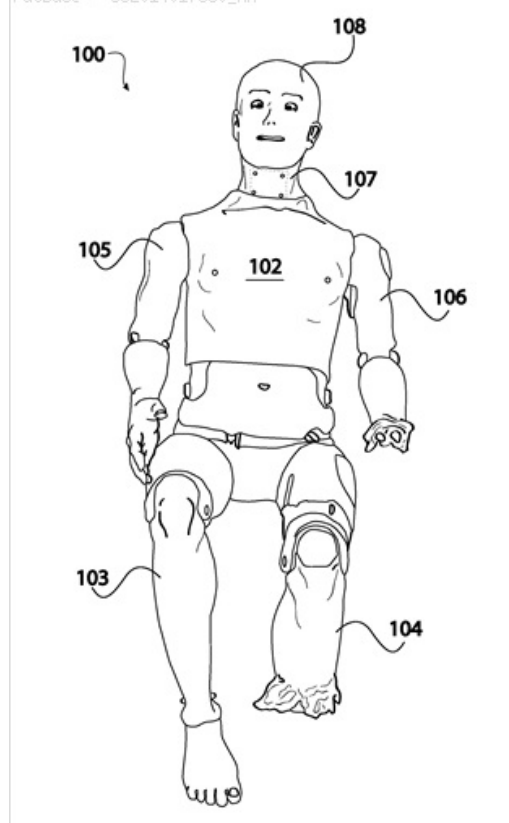
International (IPC 8-9): G09B23/28 G09B23/30

G09B23/32 (Advanced/Invention)

CPC: G09B23/288 G09B23/303 G09B23/32 G09B23/30

US: 1/1 434/267 434/268 434/270

PatBase - US2014017650_AA



Family:

Publication number	Publication date	Application number	Application date
US2014017650 AA	20140116	US20130752256	20130128
US2016133161 AA	20160512	US20160996454	20160115
US2018025667 AA	20180125	US20170721163	20170929
US9240130 BB	20160119	US20130752256	20130128
US9799235 BB	20171024	US20160996454	20160115

Priority:

US20120591851P 20120127 US20130752256 20130128 US20160996454 20160115
 US20170721163 20170929

Probable Assignee: GAUMARD SCIENTIFIC CO INC

Assignee(s): (std): GAUMARD SCIENT CO INC

Assignee(s): GAUMARD SCIENTIFIC CO INC

Inventor(s): (std): ROMERO SENYON ; RODRIGUEZ ALBERTO ; PEREZ ALBERTO ; CARVAJAL MIGUEL

Agent(s): HAYNES AND BOONE LLP

Title: APPARATUS AND METHOD FOR SIMULATING INHALATION EFFORTS

Abstract: An inhalation simulation **system** is provided for use with inhalers in particular breath-powered dry powder inhalers. The simulation **system** can recreate a patient's inhalation profile obtained with an inhaler adapted with a sensing and monitoring device for the detection of characteristic signals generated from the inhaler in use, which signals are transmitted to a computer with an algorithm which is configured to analyze the signals and generate new signals via a transmitter to actuate the inhalation simulation **system** component parts so that a subject's inhalation profile is replicated simultaneously or in real-time, or stored for later use. Methods of measuring the performance of inhalers are also provided.

Classifications:

International (IPC 8-9): A61B A61B5/00 A61B5/08 A61K A61K31/496

A61K9/00 A61K9/72 A61M A61M15/00 A61M16/00 A61M16/16 A63B

A63B23/18 G01L13/00 G01N19/00 G09B G09B19/00

G09B23/28 (Advanced/Invention);

A61B7/00 A61M16/00 A61M16/16 (Advanced/Non-invention)

CPC: A61B5/4839 A61B7/003 A61K9/0075 A61K31/496 A61M15/0028

A61M2016/0021 A61M2016/0027 A61M2016/003 A61M2202/064

A61M2205/3368 A61M2205/3375 A61M2205/3569 A61M2205/3592

A61M2205/50 A61M2205/502 A61M2205/8206 G09B19/003 G09B23/28

A61M2016/0018 A61M2205/3327 A61M2205/3546 A61M2205/52

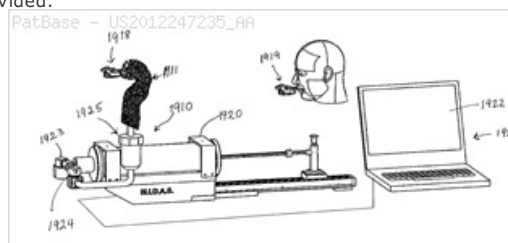
A61B5/08 A61M16/161 A61M15/008

European: A61B5/08 A61B5/4832 A61K31/496 A61K9/00M20B3 A61M15/00C G09B19/00E G09B23/28 K61B7/00D

K61M16/00A10 K61M16/00A14 K61M16/00A8B2 K61M16/16B K61M202/06B K61M205/33T K61M205/33U K61M205/35R3

K61M205/35T2 K61M205/50 K61M205/50A K61M205/82B

US: 128/203.14 73/865.4 73/865.9

**Family:**

Publication number	Publication date	Application number	Application date
CA2778698 AA	20110512	CA20102778698	20101103
EP2496295 A1	20120912	EP20100782463	20101103
HK1175727 A1	20130712	HK20130103069	20130312
JP2013514818 T2	20130502	JP20120537973T	20101103
JP2015226814 A2	20151217	JP20150144631	20150722
JP5784622 B2	20150924	JP20120537973T	20101103
US2012247235 AA	20121004	US20100505729	20101103
US2015196724 AA	20150716	US20150667539	20150324
US9016147 BB	20150428	US20100505729	20101103
US9706944 BB	20170718	US20150667539	20150324
WO11056889 A1	20110512	WO2010US55323	20101103

Priority:

US20090257813P 20091103	JP20120537973T 20101103	US20100505729 20101103
WO2010US55323 20101103	US20120505729 20120619	US20150667539 20150324
JP20150144631 20150722		

Probable Assignee: MANNKIND CORP

Assignee(s): (std): KINSEY P SPENCER ; KINSEY SPENCER P ; LAURENZI BRENDAN ; OVERFIELD DENNIS ; SMUTNEY CHAD C ; POLIDORO JOHN M ; SAHI CARL R ; MANNKIND CORP ; ADAMO BENOIT

Assignee(s): KINSEY P

Inventor(s): (std): KINSEY SPENCER P ; CARL R SAHI ; BENOIT ADAMO ; CHAD C SMUTNEY ; DENNIS OVERFIELD ; P SPENCER KINSEY ; JOHN M POLIDORO ; BRENDAN LAURENZI ; POLIDORO JOHN M ; SMUTNEY CHAD C ; OVERFIELD DENNIS ; SAHI CARL R ; KINSEY P SPENCER ; ADAMO BENOIT ; LAURENZI BRENDAN

Inventor(s): KINSEY P

Agent(s): SMART AND BIGGAR; CHARIG RAYMOND JULIAN; WENPING AND CO; K AND L GATES LLP; ROBERT W; LOUIS C; CULLMAN LOUIS C ET AL

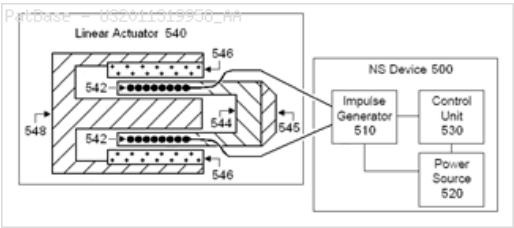
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Title: NON-INVASIVE TREATMENT OF BRONCHIAL CONSTRICTION

Abstract: Devices, **systems** and instructing methods are disclosed for treating bronchial constriction related to asthma, anaphylaxis or chronic obstructive pulmonary disease. The instructing method for treatment comprises transmitting impulses of energy non-invasively to selected nerve fibers that are responsible for smooth muscle dilation. The transmitted energy impulses, comprising magnetic and/or electrical, mechanical and/or acoustic, and optical and/or thermal energy, stimulate the selected nerve fibers.

Classifications:

International (IPC 8-9): A61N1/00 A61N1/36 A61N2/00 A61N2/02 A61N5/06 G09B23/28 (Advanced/Invention); A61N1/36 A61N7/00 (Advanced/Non-invention)
CPC: A61N2/02 A61N2/006 A61N5/0603 A61N5/0622 A61N1/3601 A61N1/3611 A61N1/36017 A61N1/36114 A61N2005/0605 A61N2007/0026
European: A61N2/00T2 A61N2/02 A61N5/06B4 A61N5/06C12 K61N1/36C K61N1/36E2 K61N1/36Z3I K61N1/36Z3J K61N5/06B4E K61N7/00A10A
US: 1/1 434/262 607/42



Family:

Publication number	Publication date	Application number	Application date
US2011319958 AA	20111229	US20110208425	20110812
US9119953 BB	20150901	US20110208425	20110812

Priority:

US20050736001P 20051110	US20050736002P 20051110	US20060772361P 20060210
US20060786564P 20060328	US20060814313P 20060616	US20060591340 20061101
US20090408131 20090320	US20090612177 20091104	US20100859568 20100819
US20110208425 20110812		

Probable Assignee: ELECTROCORE LLC

Assignee(s): (std): ELECTROCORE LLC ; ERRICO JOSEPH P ; MENDEZ STEVEN ; RAFFLE JOHN T ; SIMON BRUCE J

Inventor(s): (std): ERRICO JOSEPH P ; MENDEZ STEVEN ; RAFFLE JOHN T ; SIMON BRUCE J

Agent(s): DENTONS US LLP

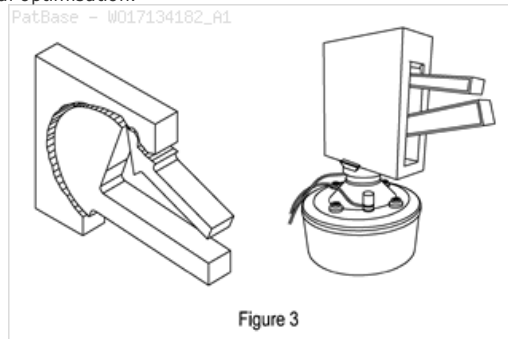
Title: A MECHANICAL VOCAL APPARATUS

Abstract: A mechanical vocal apparatus is provided and comprises a mouth roof and a tongue. The contour of the mouth roof is fixed and the tongue is movable relative to the mouth roof to vary the cross sectional area therebetween so as to produce different sounds. The contour of the mouth roof is defined by mathematical optimisation.

Classifications:

International (IPC 8-9): G09B23/32 (Advanced/Invention)

CPC: G09B23/32



Family:

Publication number	Publication date	Application number	Application date
GB201602093 A0	20160323	GB20160002093	20160205
WO17134182 A1	20170810	WO2017EP52296	20170202

Priority:

GB20160002093 20160205

Probable Assignee: UNIV PLYMOUTH ENTPR

Assignee(s): (std): UNIV OF PLYMOUTH ; UNIV PLYMOUTH ; UNIV PLYMOUTH ENTPR

Assignee(s): OF PLYMOUTH ENTERPRISE UNIV ; OF PLYMOUTH UNIV

Inventor(s): (std): HOWARD IAN

Agent(s): BRYERS LLP ET AL

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 DJ 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 KH KM KN KP KR KW 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

Title: Method and apparatus for simulating neuromuscular stimulation during medical surgery

Abstract: A method and associated apparatus for simulating neuromuscular stimulation in real time during simulated medical surgery using a manikin, such as ulnar nerve stimulation to detect the degree of neuromuscular blockade and external stimulation of nerves to produce evoked potentials so as to monitor the integrity of nerves during surgery is provided. Such simulation allows for the active participation of trainees with the simulation apparatus to experience real world medical procedures in a setting that closely mimics the real world.

Classifications:

International (IPC 8-9): A61B5/11 G09B23/28 (Advanced/Invention);

A61B5/00 A61B5/0215 A61B5/11 A61B7/00 (Advanced/Non-invention)

International (IPC 1-7): G09B23/28 G09B23/32

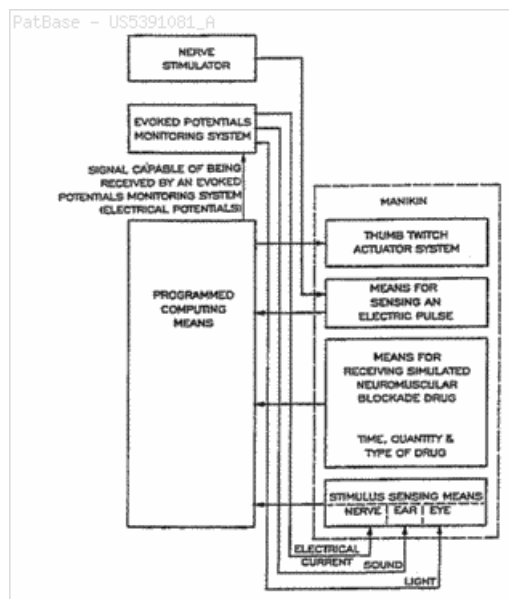
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US: 434/262 434/265 434/266 434/267 434/268 434/272



Family:

Publication number	Publication date	Application number	Application date
US5391081 A	19950221	US19920882467	19920513
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Priority:

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Probable Assignee: FLORIDA UNIV OF RESEARCH FOUNDATION INC

Assignee(s): (std): UNIV FLORIDA

Assignee(s): UNIVERSITY OF FLORIDA RESEARCH FOUNDATION INCORPO ; FLORIDA RESEARCH FOUNDATION INC ; FLORIDA RESEARCH FOUNDATION INC UNIV OF ; FLORIDA UNIV ; FLORIDA UNIV OF RESEARCH FOUNDATION INC ; OF FLORIDA RESEARCH FOUNDATION INC UNIV ; OF FLORIDA RESEARCH FOUNDATION INCORPOR UNIV ; OF FLORIDA RESEARCH FOUNDATION UNIV ; OF FLORIDA UNIV ; UNIVERSITY OF FLORIDA RESEARCH FOUNDATION INC

Inventor(s): (std): GOOD MICHAEL S ; VAN MEURS WILLEM L ; LAMPOTANG SAMSUN ; GRAVENSTEIN JOACHIM S ; GOOD MICHAEL L ; CAROVANO RONALD G

Title: DEVICE AND METHOD FOR MEDICAL TRAINING AND EVALUATION

Abstract: A training and/or evaluating device is provided particularly useful in performing laparoscopic procedures, radiological procedures, and precise surgeries that simulates the structure and dynamic motion of the corresponding anatomical structure on which the procedure takes place. The device includes an outer housing, which may be designed to mimic the body wall, in which one or more organs are located. Motion of the organ(s), as a result of respiration, pulmonary action, circulation, digestion and other factors present in a live body, is simulated in the device so as to provide accurate dynamic motion of the organs during a procedure.

Classifications:

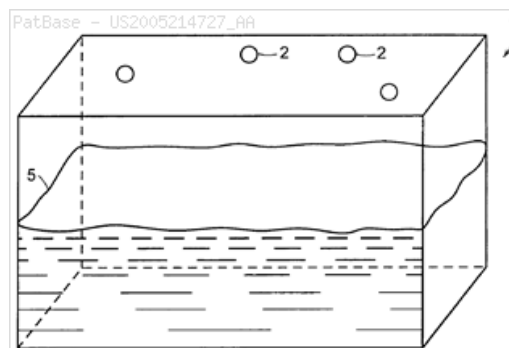
International (IPC 8-9): A61B1/00 A61B5/055 A61B6/00 A61B6/03 A61B8/00 G09B23/28 G09B23/34 G09B9/00 (Advanced/Invention); A61B1/00 A61B5/055 A61B6/00 A61B6/03 A61B8/00 G09B23/00 G09B9/00 (Core/Invention)

International (IPC 1-7): G09B23/28

CPC: G09B23/28

European: G09B23/28

US: 434/262 434/262P 434/267 434/272



Family:

Publication number	Publication date	Application number	Application date
AU2005222361 AA	20050922	AU20050222361	20050308
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CA2558650 AA	20060906	CA20052558650	20050308
CN1950862 A	20070418	CN200580014704	20050308
CN1950862 B	20111228	CN200580014704	20050308
EP1738343 A1	20070103	EP20050725026	20050308
EP1738343 A4	20100324	EP20050725026	20050308
JP2007528029 T2	20071004	JP20070502933T	20050308
US2005214727 AA	20050929	US20050075835	20050308
US8403675 BB	20130326	US20050075835	20050308
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Priority:

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Probable Assignee: JOHNS HOPKINS UNIV

Assignee(s): (std): KAVOUSSI LOUIS R ; MAZILU DUMITRU ; PATRICIU ALEXANDRU ; STOIANOVICI DAN ; UNIV JOHNS HOPKINS

Assignee(s): THE JOHNS HOPKINS UNIVERSITY ; JOHNS HOPKINS UNIV ; JOHNS HOPKINS UNIVERSITY

Inventor(s): (std): STOIANOVICI DAN PATRICIU ALEXA ; STOIANOVICI DAN ; PATRICIU ALEXANDRU ; KAVOUSSI LOUIS R ; MAZILU DUMITRU

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Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; BERESKIN AND PARR LLP; EDWARDS AND ANGELL LLP; EDWARDS WILDMAN PALMER LLP; PETER F; LISA

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 KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE 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

Title: MEDICAL TRAINING APPARATUS

Abstract: A medical training apparatus comprising an instrument holder with a medical instrument, a **model** patient body simulating a patient subject to medical treatment or examination, and an examination table on which the **model** patient body is placed. The medical training apparatus comprises a posture detection means for detecting the posture of the examination table, a medical instrument status detection means for detecting the working status of the medical instrument, an examination receiving status detection means for detecting the situation of the **model** patient body in medical treatment or examination, and a **model** patient body driving means housed in the **model** patient body. The **model** patient body driving means changes the facial or body expression of the **model** patient body, depending on combination of at least one of the posture detection signal output from the posture detection means and the medical instrument status detection signal output from the medical instrument status detection means, and the examination receiving status detection signal output from the examination receiving status detection means.

Classifications:

International (IPC 8-9): A61C19/00 A61G15/00 G09B23/28 G09B23/30

G09B23/32 G09B9/00 (Advanced/Invention);

A61G15/02 A61G15/14 (Advanced/Non-invention);

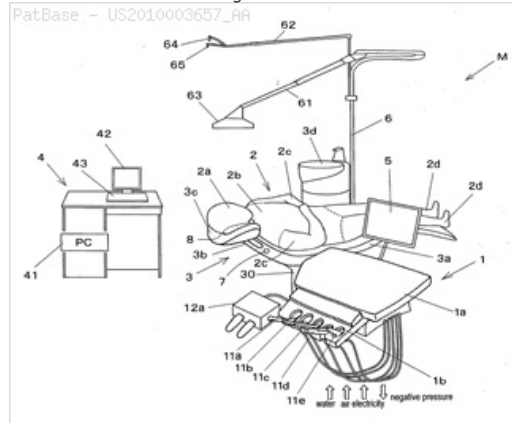
A61C19/00 G09B23/00 (Core/Invention)

CPC: G09B23/30 G09B23/28 A61G15/02 A61G15/14 G09B23/32

A61C19/00 G09B23/283

European: G09B23/28 G09B23/30 K61G15/02 K61G15/14

US: 1/1 434/267 434/267P



Family:

Publication number	Publication date	Application number	Application date
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DE112007001986 T5	20090813	DE200711001986T	20070124
FI20095180 A	20090224	FI20090005180	20090224
JP2008023464 A1	20100107	JP20080530808T	20070124
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Priority:

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Probable Assignee: NIPPON DENTAL UNIV

Assignee(s): (std): KIRA TAKESHI ; KOKORO CO LTD ; MATSUZAKI TATSUO ; MORITA MFG ; NIPPON DENTAL UNIV ; SHIMAYA TADASHI ; UZUKA SATOSHI ; SHIBUI NAOTAKE ; NISHIKAWA KAZUO ; NAKAMURA KIMINARI ; NISHIMURA MIKINORI ; NAKAI TERUJI ; MORITA MFG CO LTD

Assignee(s): J MORITA MFG CORP ; JMORITA MFG CORP

Inventor(s): (std): KAZUO NISHIKAWA ; KIMINARI NAKAMURA ; KIRA TAKESHI ; MATSUZAKI TATSUO ; MIKINORI NISHIMURA ; NAKAI TERUJI ; NAKAMURA KIMINARI ; NAOTAKE SHIBUI ; NISHIKAWA KAZUO ; NISHIMURA MIKINORI ; SATOSHI UZUKA ; SHIBUI NAOTAKE ; SHIMAYA TADASHI ; TADASHI SHIMAYA ; TAKESHI KIRA ; TATSUO MATSUZAKI ; TERUJI NAKAI ; UZUKA SATOSHI

Agent(s): NAKAI HIROYUKI; QUINN EMANUEL,KODA AND ANDROLIA; QUINN EMANUEL KODA AND ANDROLIA; DLA PIPER LLP

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 GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC 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

Title: INTERACTIVE EDUCATION **SYSTEM** FOR TEACHING PATIENT CARE

Abstract: An interactive education **system** for teaching patient care to a user is described. The **system** comprises a patient **simulator**; a virtual instrument for use with the patient **simulator** in performing patient care activities; means for sensing an interaction between the virtual instrument and the **simulator**, and means for providing feedback to the user regarding the interaction between the virtual instrument and the **simulator**.

Classifications:

International (IPC 8-9): A61B19/00 A61G12/00 G06F19/00 G06Q50/00 G09B19/00 G09B23/00 G09B23/28 G09B23/30 G09B23/32 G09B23/34 G09B23/38 G09B9/00 (Advanced/Invention);

A61B19/00 (Advanced/Non-invention);

G06F19/00 G06Q50/00 G09B23/00 G09B9/00 (Core/Invention);

A61B19/00 (Core/Non-invention)

International (IPC 1-7): A61B A61G12/00 G09B23/28

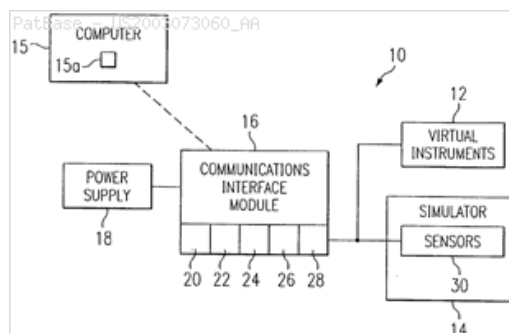
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European: G06F19/34H G09B23/28 G09B23/28B G09B23/30 G09B23/32

US: 1/1 434/262 434/262P 434/262S 434/265 434/266 434/266P

434/266S 434/267 434/267S 434/268 434/270 434/271 434/272

434/272P 434/273 434/273P 434/273S



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: GAUMARD SCIENTIFIC CO INC

Assignee(s): (std): EGGERT JOHN S ; EGGERT M D MICHAEL S ; EGGERT MICHAEL S ; EGGERT MICHAEL S M D ; GAUMARD SCIENT CO INC ; GAUMARD SCIENT COMPANY INC ; GAUMARD SCIENT INC ; VALLEJO PHILLIP ; JOHNS DEVIN ; RODRIGUEZ ALBERTO ; GAUMARD SCIENTIFIC CO INC ; JIANG NING

Assignee(s): GAUMARD SCIENTIFIC CO INC MIAMI ; GSUMARD SCIENTIFIC CO INC ; GAUMARD SCIENTIFIC INC ; GAUMARD SCIENTIFIC COMPANY INC ; GAUMARD SCIENTIFC CO INC ; EGGERT MD ; EGGERT M D

Inventor(s): (std): EGGERT JOHN S ; EGGERT MICHAEL S ; EGGERT MICHAEL S M D ; CARVAJAL MIGUEL ; JOHNS DEVIN ; RODRIGUEZ ALBERTO ; VALLEJO PHILLIP ; JIANG NING ; EGGERT M D MICHAEL S ; EGART M D MICHAEL S ; EGART JOHN S ; ALBERT RODRIGUEZ

Inventor(s): EGGERT M D ; EGGERT MD MICHAEL S ; VALLEJO PHILLIP MIAMI ; MICHAEL S MD EGGERT ; MICHAEL S M D EGGERT ; PHILLIP VALLEJO ; EGGERT JOHN ; EGGERT MICHAEL S MD BIRMINGHAM ; JOHN S EGGERT ; EGGERT JOHN S MIAMI ; EGGERT MD ; EGGERT MICHAEL

Agent(s): HOFFMANN EITLE PATENT U RECHTSANWALTE PARTMBB ; HOFFMANN EITLE ; BOULT WADE TENNANT ; FROST ALEX JOHN ; BOULT WADE TENNANT LLP ; DOBASHI AKIRA ; HAYNES AND BOONE LLP ; HAYNES AND BOONE LLP IP SECTION ; MCCOMBS DAVID L ET AL ; WEBB GREGORY 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: **SYSTEMS** AND APPARATUS FOR MEASURING A BIOACTIVE AGENT EFFECT

Abstract: Apparatus and **systems** are described that include **physical** media related to accepting at least one attribute associated with an individual from a licensed health care provider and/or presenting an output of an artificial sensory experience associated with a request to measure at least one effect of a bioactive agent on the attribute associated with individual.

Classifications:

International (IPC 8-9): A61B19/00 A61B3/00 A61B3/024 A61B5/00 A61B5/0205 A61B5/024 A61B5/04 A61B5/05 A61B5/053 A61B5/08 A61B5/16 A61F5/00 A61K31/135 A61K31/5415 A61K33/00 A61K33/10 A61K39/395 A61K45/06 A61M11/00 A61M15/00 A61M21/00 A61M21/02 A61M31/00 A61M35/00 A61M37/00 A61M5/172 A61P43/00 A63F13/00 A63F9/24 G01N33/48 G03B21/32 G05B11/01 G05B13/00 G05B13/02 G05B19/042 G06F17/00 G06F17/30 G06F19/00 G06F3/048 G06F7/06 G06N3/00 G06N5/02 G06N5/04 G06Q10/00 G06Q50/00 G06Q50/22 G06Q50/24 G08B1/08 G08B23/00 G09B5/00

G10L15/00 (Advanced/Invention);

A61M21/00 (Advanced/Non-invention);

A61B5/00 A61B5/024 A61B5/16 A61F5/00 A61K33/06 A61K39/395

A61M15/00 A61M21/00 A61M31/00 A61M35/00 A61M37/00 A61P43/00

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G10L15/00 (Core/Invention)

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S06F19/34N S06F19/34P

US: 1/1 1/1P 128/200.15 128/200.16 128/203.15 128/203.150S 128/897

340/539.12 340/539.120P 340/573.1 340/573.100S 424/130.1

424/130.100P 424/687 424/687S 434/236 434/236P 463/30 463/30S

463/36 463/36S 600/21 600/26 600/26S 600/27 600/27P 600/27S 600/28

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700/94 700/94P 700/94S 702/19 702/19P 702/19S 703/2 704/231

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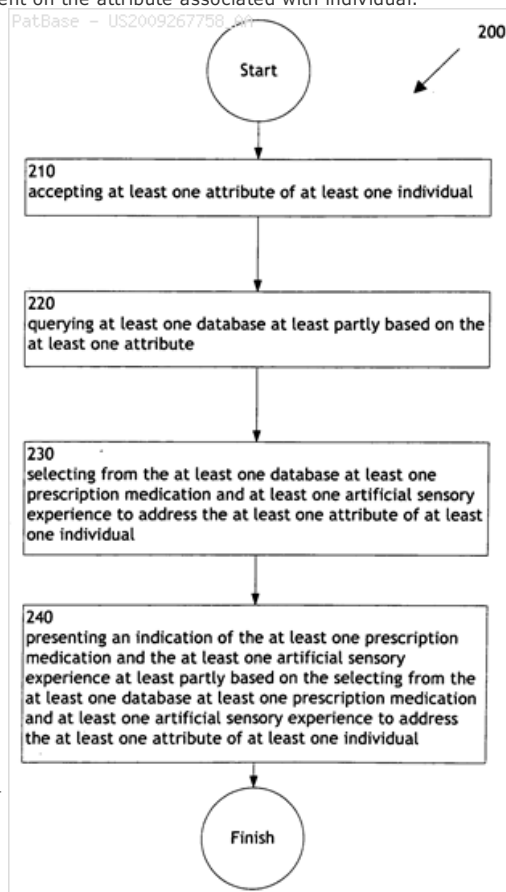
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Family:

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Probable Assignee: SEARETE LLC

Assignee(s): (std): GEARBOX LLC ; HYDE RODERICK A ; INV SCIENCE FUND 1 LLC ; INVENT SCIENCE FUND I LLC ; INVENTION SCIENCE FUND I LLC ; SEARETE LLC ; LEVIEN ROYCE A ; ISHIKAWA MURIEL Y ; LORD ROBERT W ; MALAMUD MARK A ; LEUTHARDT ERIC C ; LEUTHARDT ERIC C ; SEARETE LLC A LTD CORP OF ; WOOD VICTORIA Y H ; SWEENEY ELIZABETH A ; WOOD JR LOWELL L ; WOOD LOWELL L

Assignee(s): WOOD VICTORIA YH ; SEARETE LLC A LIABILITY OF STTE OF DELAWARE CORP LTD ; SEARETE LLC A LIABILITY CORP LTD ; SEARETE LLC A OF STATE OF DELAWARE CORP LTD ; SEARETE LLC A LIABILITY OF STATE OF DELAWARE CORP LTD ; SEARETE LLC A LIABILITY OF STATE OF DELAWAR CORP LTD ; INVENTION SCIENCE FUND 1 LLC

Inventor(s): (std): HYDE RODERICK A ; ISHIKAWA MURIEL Y ; LEUTHARDT ERIC C ; MALAMUD MARK A ; LEVIEN ROYCE A ; SWEENEY ELIZABETH A ; LORD ROBERT W ; LEUTHARDT ERIC C ; WOOD VICTORIA Y H ; WOOD JR LOWELL L ; WOOD LOWELL L

Inventor(s): WOOD VICTORIA YH

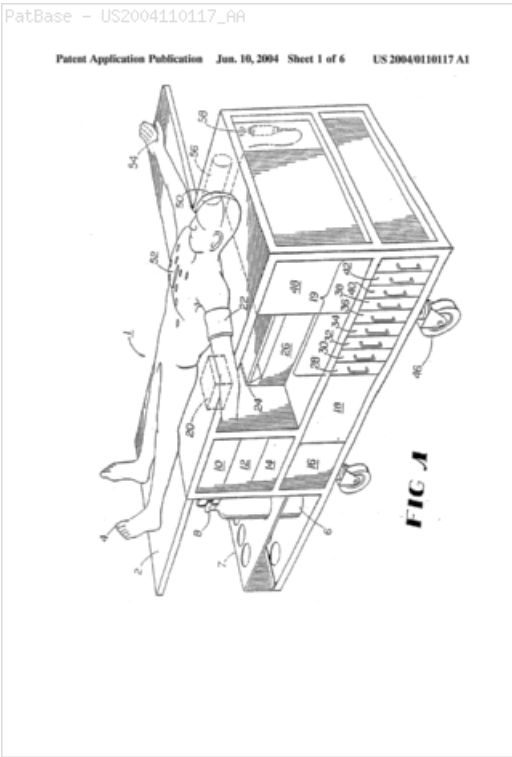
Agent(s): IV SUITER SWANTZ PC LLO; SEARETE LLC CLARENCE T TEGREENE; IV - SUITER SWANTZ PC LLO; KELLER LAPUMA WOODARD PC

Title: **LUNG SIMULATOR** FOR AN INTEGRATED HUMAN PATIENT **SIMULATOR**

Abstract: A simulated **lung** for use in real time simulated medical procedures comprising a positive pressure source of a gas, a vacuum pressure source, a fixed interior volume vessel having an inlet, an outlet, and a breath passage port, the inlet in communication with the positive pressure source, and the outlet in communication with the vacuum pressure source, a first flow valve intermediate the positive pressure source and the inlet, a second flow valve intermediate the vacuum pressure source and the outlet, a pressure sensor in communication with the interior volume of the vessel, and means for continuously evaluating a pressure signal generated by the pressure sensor to a desired pressure level within the vessel during the breathing cycle such that a flow of gas entering and exiting the breath passage port of the vessel is synchronized with a predetermined desired flow rate of breathing during the breathing cycle. The desired pressure level depends upon any one of i) a time and event based script, ii) a computer **model**, iii) or a combination of a time and event based script and a computer **model** based on a physiological state of a simulated patient.

Classifications:

International (IPC 8-9): G09B23/28 G09B23/30 (Advanced/Invention);
G09B23/00 (Core/Invention)
International (IPC 1-7): G09B23/28
CPC: G09B23/288 G09B23/30
European: G09B23/28W G09B23/30
US: 434/262 434/272



Family:

Publication number	Publication date	Application number	Application date
US2004110117 AA	20040610	US20020313360	20021206
US6921267 BB	20050726	US20020313360	20021206

Priority:

US20020313360 20021206

Probable Assignee: OF FLORIDA RESEARCH FOUNDATION INC UNIV

Assignee(s): (std): MEKA VENKATA ; UNIV FLORIDA ; VAN OOSTROM JOHANNES H

Assignee(s): UNIVERSITY OF FLORIDA RESEARCH FOUNDATION INC ; FLORIDA RESEARCH FOUNDATION INC UNIV ; UNIVERSITY OF FLORIDA ; UNIVERSITY OF FLORIDA RESEARCH FOU ; OF FLORIDA RESEARCH FOUNDATION INC UNIV ; OF FLORIDA UNIV

Inventor(s): (std): MEKA VENKATA ; VAN OOSTROM JOHANNES H

Agent(s): MILES AND STOCKBRIDGE PC; CLARKE DENNIS P; DENNIS P

Title: HEALTHCARE TRAINING **SYSTEM** AND METHOD

Abstract: A healthcare simulation **system** includes a mannequin with active physiological characteristics, a display monitor adapted for displaying physiological parameters and a computer for controlling the mannequin and the monitor. A healthcare simulation method includes the steps of programming the computer with healthcare scenarios, operating active characteristics of the mannequin and dynamically displaying physiological parameters corresponding to patient vital signs.

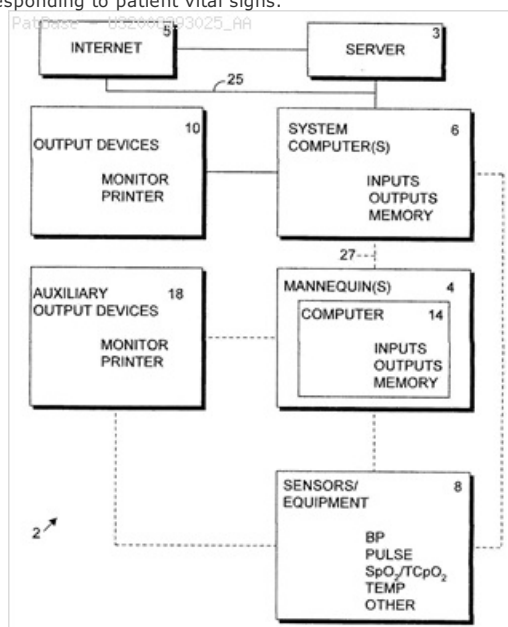
Classifications:

International (IPC 8-9): G09B23/00 G09B23/26 G09B23/28 G09B23/30 G09B5/06 G09B9/00 (Advanced/Invention); G09B23/24 G09B23/30 (Advanced/Non-invention); G09B23/00 (Core/Invention)

CPC: G09B23/303 G09B23/24 G09B23/30 G09B5/06 G09B23/285 G09B23/288 G09B23/28 G09B9/00

European: G09B23/28

US: 1/1 434/219 434/262 434/262P 434/265 434/266 434/267 434/268



Family:

Publication number	Publication date	Application number	Application date
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US9916773 BB	20180313	US20140165485	20140127
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Priority:

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Probable Assignee: JC3 INNOVATIONS LLC

Assignee(s): (std): JC3 INNOVATIONS LLC ; JOHNSON COUNTY COMMUNITY COLLEGE FOUND INC ; JOHNSON COUNTY COMMUNITY COLLEGE FOUNDATION INC ; ZAMIEROWSKI DAVID S ; ZAMIEROWSKI DAVID S ; CARVER KATHY A

Assignee(s): GUERRA LAWRENCE E

Inventor(s): (std): CARVER KATHY A ; ZAMIEROWSKI DAVID S ; ZAMIEROWSKI DAVID S ; GUERRA LAWRENCE E

Agent(s): PHILLIPS ORMONDE FITZPATRICK; MOFFAT AND CO; WILLIAMS POWELL; MARK BROWN; LAW OFFICE OF MARK BROWN LLC; MARK E; MARK; BROWN MARK E; HINDERLITER RYAN S

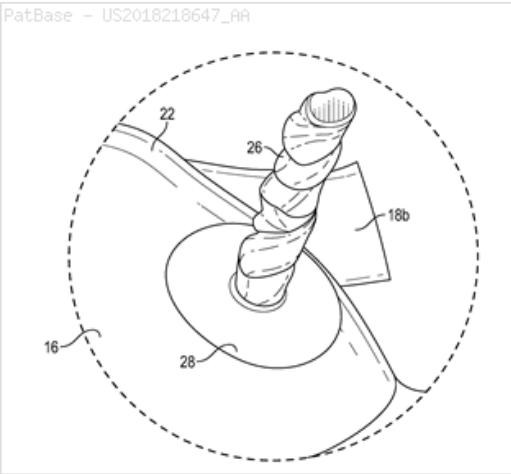
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Title: PATIENT **SIMULATOR** AND ASSOCIATED DEVICES, **SYSTEMS**, AND METHODS

Abstract: An apparatus and method according to which a patient **simulator** is used to simulate a human patient's breathing pattern, the patient **simulator** including a simulated **respiratory system** and a simulated airway **system**. The simulated **respiratory system** includes a **lung** valve, a simulated **lung** in communication with the **lung** valve, and a breathing pump including a cylinder and a piston dividing the cylinder into first and second chambers, the first chamber being in communication with the **lung** valve via at least a first flow path, and the second chamber being in communication with the **lung** valve via at least a second flow path. The simulated airway **system** is configured to be in communication with the second chamber of the breathing pump via at least a third flow path. In several exemplary embodiments, simulating, using the patient **simulator**, the human patient's breathing pattern comprises reciprocating the piston within the cylinder.

Classifications:

International (IPC 8-9): A62B27/00 G09B23/00 G09B23/28 G09B23/30 G09B23/32 G09B9/00 (Advanced/Invention)
CPC: G09B23/303 A61M16/0057 G09B23/288 G09B23/281 A61M16/0003



Family:

Publication number	Publication date	Application number	Application date
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WO18140779 A1	20180802	WO2018US15530	20180126

Priority:

US20170451557P 20170127 US20180880720 20180126

Probable Assignee: GAUMARD SCIENT CO INC

Assignee(s): (std): GAUMARD SCIENT CO INC

Assignee(s): GAUMARD SCIENTIFIC CO INC

Inventor(s): (std): FERNANDEZ VICTOR ; MORALES LAZARO ; RODRIGUEZ ALBERTO ; VALDES YASSEL

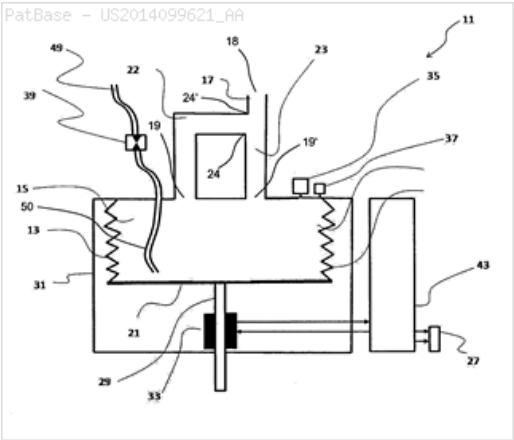
Agent(s): HALBUR ZACHARY

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

Title: **PHYSICAL LUNG MODEL** TO SIMULATE ORGAN FUNCTION IN HEALTH AND DISEASE

Abstract: The invention relates to a **lung simulator** apparatus, as well as to a method to ventilate a **lung simulator** with a ventilator. The **lung simulator** apparatus comprises an air chamber with a variable volume for an exchangeable gas, which air chamber is connected in parallel with two air conduits, and a gas exchange element for injecting a tracer gas into the air chamber, wherein the volumes of the air conduits are substantially different. The method of simulating **lung** function comprises filling a first gas into the air chamber, which has a variable volume and which is connected in parallel with the two air conduits, and injecting a second gas into the air chamber, pressing the first and second gas out of the air chamber, and optionally repeating these steps.

Classifications:
International (IPC 8-9): G09B23/28 (Advanced/Invention)
CPC: G09B23/288
European: G09B23/28W
US: 434/272



Family:

Publication number	Publication date	Application number	Application date
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EP2715706 B1	20151014	EP20120726003	20120516
US2014099621 AA	20140410	US20120118533	20120516
US9805622 BB	20171031	US20120118533	20120516
WO12155283 A1	20121122	WO2012CH00109	20120516

Priority:
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EP20120726003 20120516

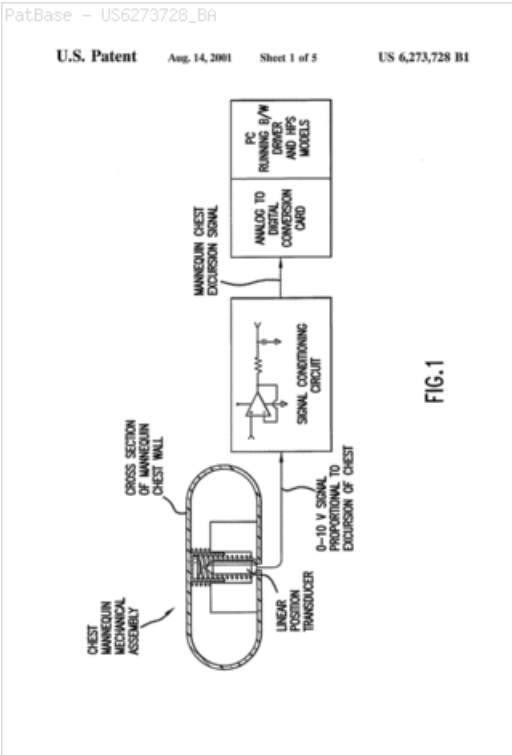
Probable Assignee: ORGANIS GMBH
Assignee(s): (std): FUCHS MARIO ; FUCHS ROMAN ; ORGANIS GMBH
Inventor(s): (std): FUCHS MARIO ; FUCHS ROMAN
Agent(s): KIRBY EADES GALE BAKER; KOHLER SCHMID MOEBUS PATENTANWAELTE PARTNERSCHAFTSGESELLSCHAFT MBB; ZECH AGARWAL NICOLE CLAUDIA; MORRIS OBRYANT COMPAGNI CANNON PLLC; HASLER ERICH
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

Title: Life support simulation **system** simulating human physiological parameters

Abstract: Method and apparatuses for simulating life support procedures in real-time using a mannequin. The apparatuses and methods are operable for a number of therapeutic interventions and provide for a number of appropriate simulated physiological and pharmacological responses. Included interventions are chest displacement, the application of gas pressure to the upper airway, inspiratory gas composition, administration of a fluid, or administration of intravenous drugs. These interventions provide a variety of appropriate responses (and misapplication of an intervention by a trainee provides a corresponding appropriate response).

Classifications:

International (IPC 8-9): G09B23/28 (Advanced/Invention);
G09B23/00 (Core/Invention)
International (IPC 1-7): G09B23/28
CPC: G09B23/28
European: G09B23/28
US: 434/262 434/268



Family:

Publication number	Publication date	Application number	Application date
US6273728 BA	20010814	US19970923807	19970904

Priority:

US19970923807 19970904

Probable Assignee: FLORIDA UNIV

Assignee(s): (std): UNIV FLORIDA

Assignee(s): FLORIDA UNIV ; THE UNIVERSITY OF FLORIDA

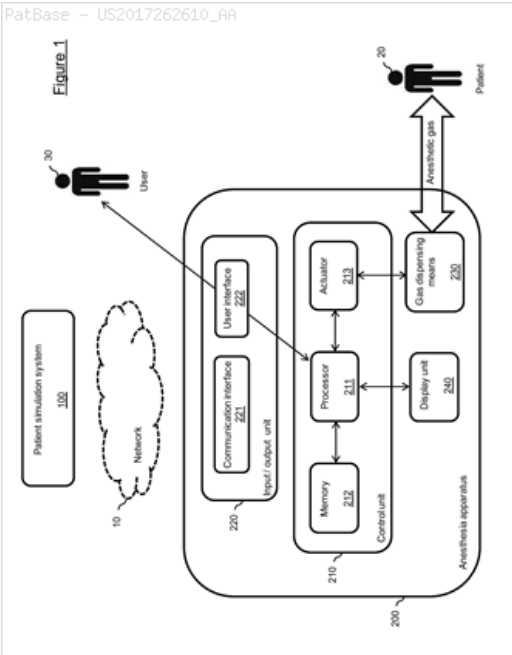
Inventor(s): (std): AZUKAS JAMES BRADLEY ; BENEKEN JOANNES E W ; CAROVANO JR RONALD GEORGE ; DE BEER NICOLE ANNA MARIE ; ELLIS MICHAEL FRANKLIN ; EULIANO TAMMY YACHABACH ; GOOD MICHAEL LOWELL ; GRAVENSTEIN JOACHIM STEFAN ; LAMPOTANG SAMSUN ; MCCLURE MARK WOODSON ; VAN MEURS WILLEM LAMBERTUS

Title: PATIENT SIMULATION **SYSTEM** ADAPTED FOR INTERACTING WITH A MEDICAL APPARATUS

Abstract: Patient simulation **system** adapted for interacting with a medical apparatus, and method for operating the patient simulation **system**. A processing unit of the patient simulation **system** stores at least one physiological **model** of a patient in a memory of the patient simulation **system**. The processing unit receives at least one gas control parameter from the medical apparatus via a communication interface of the patient simulation **system**. The processing unit correlates the at least one gas control parameter with one of the at least one physiological **model** of a patient to generate simulated physiological effects. The processing unit further transmits the simulated physiological effects to the medical apparatus via the communication interface. In a particular aspect, the medical apparatus consists of an anesthesia apparatus.

Classifications:

International (IPC 8-9): A61M16/00 A61M16/01 A61M16/10 G06F19/00 G09B23/28 G09B9/00 (Advanced/Invention)
CPC: A61M16/104 A61M2205/3553 A61M2205/3584 A61M2205/505 A61M2209/02 A61M16/01 G09B23/28 A61M16/0051 A61M16/024 G16H50/50



Family:

Publication number	Publication date	Application number	Application date
CA2923191 AA	20160506	CA20162923191	20160308
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US2017262610 AA	20170914	US20160064419	20160308
WO17152278 A1	20170914	WO2017CA50305	20170307

Priority:

CA20162923191 20160308 US20160064419 20160308

Probable Assignee: CAE HEALTHCARE CANADA INC

Assignee(s): (std): CAE HEALTHCARE CANADA INC

Assignee(s): AZEVEDO HUGO

Inventor(s): (std): AZEVEDO HUGO

Agent(s): IP DELTA PLUS INC; FASKEN MARTINEAU DUMOULIN LLP

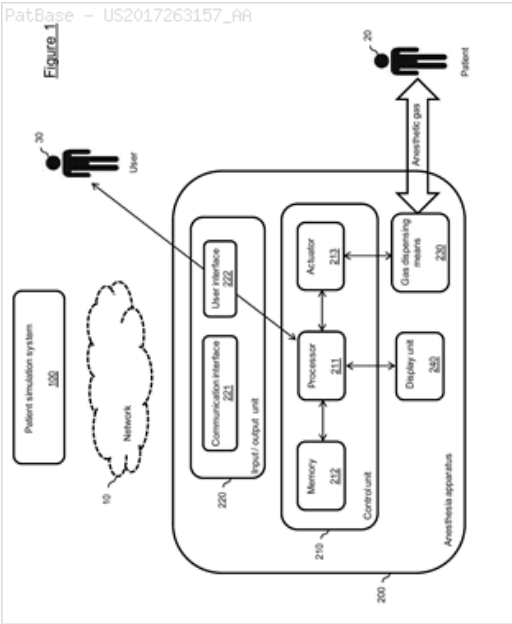
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Title: ANESTHESIA APPARATUS ADAPTED FOR OPERATING IN ONE OF A GAS- DISPENSING MODE AND A GAS-LESS SIMULATION MODE

Abstract: Anesthesia apparatus adapted for operating in one of a gas-dispensing mode and a gas-less simulation mode, and method of operating the anesthesia apparatus. A mode selection command is received from an input/output unit of the anesthesia apparatus. A control unit of the anesthesia apparatus selects one of a gas-dispensing mode and a gas-less simulation mode based on the received mode selection command. At least one gas control parameter is received from the input/output unit. When the gas-dispensing mode is selected, the control unit actuates gas dispensing means of the anesthesia apparatus based on the received at least one gas control parameter. When the gas-less simulation mode is selected, the control unit prevents actuation of the gas dispensing means, and transmits the at least one gas control parameter to a patient simulation system via a communication interface of the input/output unit.

Classifications:

International (IPC 8-9): A61B34/10 A61M16/01 A61M16/10 A61M16/12 G09B23/28 G09B9/00 (Advanced/Invention)
CPC: A61M16/104 A61M2205/27 A61M2205/60 G09B23/28 A61B34/10 A61M16/01 A61M16/12 A61M2205/3553 A61M2205/3584 A61M2205/505 A61M2230/00



Family:

Publication number	Publication date	Application number	Application date
CA2923189 AA	20160506	CA20162923189	20160308
CA2923189 C	20161129	CA20162923189	20160308
US2017263157 AA	20170914	US20160064345	20160308
WO17152277 A1	20170914	WO2017CA50304	20170306

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