

Search history

Search 1: FT=(RESPIRATORY~ SYSTEM~ AND LUNG~ AND SIMULATION~) (Results 1532)

Search 2: FT=(RESPIRATORY~ SYSTEM~ AND LUNG~ AND SIMULATION~ AND emulation~ AND mechanism~ AND hermetic) and IC=(G09B) (Results 1)

Search 3: FT=(RESPIRATORY~ SYSTEM~ AND LUNG~ AND SIMULATION~ AND emulation~ AND mechanism~ AND hermetic) (Results 14)

Search 4: FT=(RESPIRATORY~ SYSTEM~ AND LUNG~ AND SIMULATION~ AND emulation~ AND hermetic) (Results 14)

Search 5: FT=(RESPIRATORY~ SYSTEM~ AND LUNG~ AND SIMULATION~ AND hermetic) (Results 26)

Search 6: FT=(RESPIRATORY~ SYSTEM~ AND LUNG MODEL~ AND SIMULATION) (Results 41)

Search 7: FT=(RESPIRATORY~ SYSTEM~ AND LUNG MODEL~ AND SIMULATION~ AND AIRTIGHT) (Results 5)

Title: **Simulated** human lung for anesthesiology **simulation**

Abstract: A compact system that **simulates** a pair of human lungs. The lungs can be controlled to breathe spontaneously under a computer program, or the lungs can also be ventilated from a standard mechanical ventilator used in anesthesiology. Lung compliance and resistance can be varied during a **simulation** exercise to **simulate** various physiological disease conditions. The unit is compact and will fit into the chest cavity of a mannequin. The device is especially useful for the training of anesthesiologists, especially with respect to ventilating patients.

Classifications:

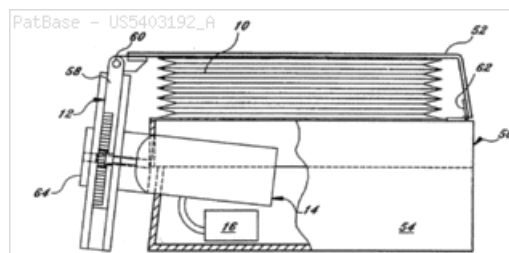
International (IPC 8-9): G09B23/28 (Advanced/Invention);
G09B23/00 (Core/Invention)

International (IPC 1-7): G09B23/28

CPC: G09B23/28

European: G09B23/28

US: 434/272



Family:

Publication number	Publication date	Application number	Application date
US5403192 A	19950404	US19930060022	19930510

Priority:

US19930060022 19930510

Probable Assignee: MEDSIM EAGLE SIMULATION INC

Assignee(s): (std): CAE LINK CORP

Assignee(s): MEDSIM EAGLE SIMULATION INC

Inventor(s): (std): KLEINWAKS JEFFREY M ; KOOSHA MANSOUR ; LARRABEE DAVID L ; PRENDERGAST WILLIAM K

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5403192 A	19950404	LSGT	+	granted / extensions (spc, cpc, pte)	
US5403192 A	19930719	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CAE-LINK CORPORATION, NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KLEINWAKS, JEFFREY M.; KOOSHA, MANSOUR; PRENDERGAST, WILLIAM K.; AND OTHERS; REEL/FRAME:006616/0265 EFFECTIVE DATE : 19930630
US5403192 A	19980928	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MEDSIM - EAGLE SIMULATION, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CAE ELECTRONICS INC.; REEL/FRAME:009479/0595 EFFECTIVE DATE : 19980905
US5403192 A	19990331	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5403192 A	20030404	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5403192 A	20030507	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5403192 A	20030507	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5403192 A	20030603	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20030404
US5403192 A	20130510	PEXP		Calculated Patent Term Expiry	

European: A61B5/091

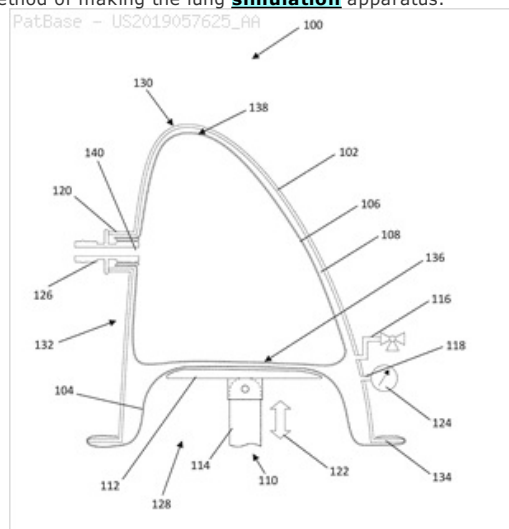
Title: LUNG **SIMULATION** APPARATUS

Abstract: There is provided a lung **simulation** apparatus for **simulating** a state of a living mammalian lung, the lung **simulation** apparatus comprising, a housing having a shape defined by an apex, an open base and a lateral surface that tapers from the open base to the apex; an elastic membrane covering the open base of the housing; an inflatable sac disposed within the housing, the sac being in substantial conformance with the shape of the housing and approximating the shape of the living mammalian lung, when in an inflated state; an internal space for containing fluid, the internal space being defined as the space between the housing and the inflatable sac and the space between the elastic membrane and the inflatable sac, wherein the space for containing fluid substantially complies with the anatomical dimensions of an intrapleural space of the living mammalian lung when the inflatable sac is in the inflated state. There is also provided a method of making the lung **simulation** apparatus.

Classifications:

International (IPC 8-9): G09B23/28 G09B23/30
G09B23/32 (Advanced/Invention)

CPC: G09B23/32 G09B23/28



Family:

Publication number	Publication date	Application number	Application date
SG10201602102P A1	20171030	SG20161002102	20160317
US2019057625 AA	20190221	US20170079453	20170302
WO17160228 A1	20170921	WO2017SG50097	20170302

Priority:

SG20161002102 20160317 WO2017SG50097 20170302

Probable Assignee: CHANGI GENERAL HOSPITAL PTE LTD

Assignee(s): (std): CHANGI GENERAL HOSPITAL PTE LTD

Inventor(s): (std): CHING TSZ HIM ; QUAH LISHAN JESSICA

Agent(s): DONALDSON AND BURKINSHAW LLP

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
SG10201602102P A1	20171030	LSPB	+	published / reissued	
US2019057625 AA	20190221	LSPB	+	published / reissued	
US2019057625 AA	20181101	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CHANGI GENERAL HOSPITAL PTE LTD, SINGAPORE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:QUAH, LISHAN JESSICA; CHING, TSZ HIM; SIGNING DATES FROM 20180920 TO 20180926; REEL/FRAME:047384/0684
WO17160228 A1	20170921	LSPB	+	published / reissued	
WO17160228 A1	20180918	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

WO17160228 A1	20190410	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 17767076 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
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Title: Method of measuring residual lung volume in infants

Abstract: A method of measuring residual lung volume (RV) in infants by washout of nitrogen or other inert gas, using a compression jacket for rapid thoracoabdominal compression (RTC). RTC is performed from a raised lung volume (V30) to an airway opening pressure. The jacket pressure (Pj) (range 65-92 cm H2O) which generates the highest forced expiratory volume is used during the RV maneuver. The infant is manually hyperventilated to briefly inhibit the respiratory drive. RTC is initiated during the last passive expiration. By measuring the volume of nitrogen expired after end-forced expiratory switching of the inspired gas from a breathable mixture containing an inert gas to 100 percent oxygen while RTC is maintained during the post-expiratory pause, RV is calculated.

Classifications:

International (IPC 8-9): A61B5/091 (Advanced/Invention);

A61B5/08 (Advanced/Non-invention);

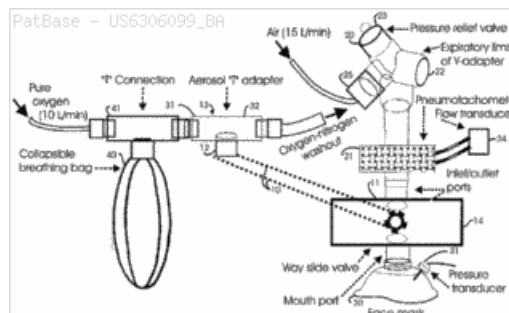
A61B5/08 (Core/Invention)

International (IPC 1-7): A61B5/08

CPC: A61B5/0813 A61B5/091

European: A61B5/091 K61B5/08N

US: 600/529 600/532



Family:

Publication number	Publication date	Application number	Application date
US6306099 BA	20011023	US20000506147	20000217

Priority:

US20000506147 20000217

Probable Assignee: BIOVENTURES LLC

Assignee(s): (std): ARKANSAS CHILDREN'S HOSPITAL R ; TRUSTEES OF UNIV OF ; UNIV ARKANSAS

Assignee(s): ARKANSAS CHILDREN'S HOSPITAL RESEARCH INST ; BIOVENTURES LLC ; BOARD OF TRUSTEES OF UNIV OF ARKANSAS ; TRUSTEES OF UNIV ; BOARD OF TRUSTEES OF UNIV OF ARKANSAS 2404 NORTH U ; BOARD OF TRUSTEES OF UNIV ; BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS ; ARKANSAS CHILDREN S HOSPITAL RESEARCH INST ; ARKANSAS CHILDREN S HOSPITAL RESEARCH INST IN ; ARKANSAS CHILDREN S HOSPITAL RESEARCH INSTITUTE INC ; ARKANSAS CHILDREN'S HOSPITAL RESEARCH INST

Inventor(s): (std): MORRIS MOHY G

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Patent	Date recorded	Event group	Code	Event	Details
US6306099 BA	20011023	LSGT	+	granted / extensions (spc, cpc, pte)	
US6306099 BA	20000217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS, A OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MORRIS, MOHY G.; REEL/FRAME:010615/0079 EFFECTIVE DATE : 20000216
US6306099 BA	20000217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ARKANSAS CHILDREN'S HOSPITAL RESEARCH INSTITUTE, A OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MORRIS, MOHY G.; REEL/FRAME:010615/0079 EFFECTIVE DATE : 20000216
US6306099 BA	20011004	LSGT	PAT1	Patented Case	
US6306099 BA	20011004	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6306099 BA	20041028	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6306099 BA	20081113	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6306099 BA	20130111	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

US6306099 BA	20170403	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BIOVENTURES, LLC, ARKANSAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS; REEL/FRAME:041831/0308 EFFECTIVE DATE : 20170222
US6306099 BA	20200217	PEXP		Calculated Patent Term Expiry	

Title: INHALER SYSTEM FOR TARGETED MAXIMUM DRUG-AEROSOL DELIVERY

Abstract: A smart inhaler system comprising an inhaler device for directed aerosol delivery facilitated by an adaptive nozzle and a mechanism for inhalation waveform modulation is provided. Methods of using the smart inhaler system for delivering an active agent to a target area of a lung of a subject are further provided.

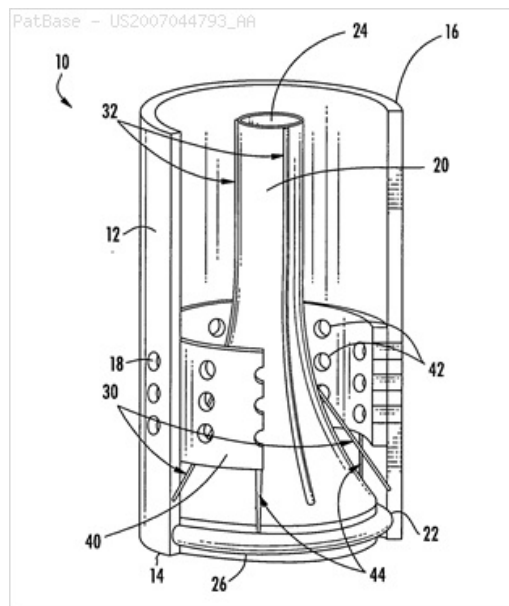
Classifications:

International (IPC 8-9): A61M11/00 A61M15/08 (Advanced/Invention);
A61M11/00 (Core/Invention)

CPC: A61M15/0086 A61M16/208 A61M16/201

European: A61M15/00K A61M16/20B

US: 128/200.14 128/200.140S 128/200.21 128/200.210P 128/200.24
128/203.12 128/203.15 128/203.23



Family:

Publication number	Publication date	Application number	Application date
US2007044793 AA	20070301	US20060510288	20060825
US7900625 BB	20110308	US20060510288	20060825
WO08048234 A2	20080424	WO2006US33596	20060825
WO08048234 A3	20081002	WO2006US33596	20060825

Priority:

US20050711461P 20050826 US20060510288 20060825

Probable Assignee: UNIV NORTH CAROLINA STATE

Assignee(s): (std): KLEINSTREUER CLEMENT ; SEELECKE STEFAN ; UNIV NORTH CAROLINA STATE

Assignee(s): NATIONAL SCIENCE FOUNDATION ; NORTH CAROLINA STATE UNIV ; NORTH CAROLINA STATE UNIVERSITY

Inventor(s): (std): KLEINSTREUER CLEMENT ; SEELECKE STEFAN

Agent(s): JENKINS WILSON TAYLOR AND HUNT P A; JENKINS WILSON TAYLOR AND HUNT PA; TAYLOR ARLES A

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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2007044793 AA	20070301	LSPB	+	published / reissued	
US2007044793 AA	20110216	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7900625 BB	20110308	LSGT	+	granted / extensions (spc, cpc, pte)	
US7900625 BB	20110216	LSGT	PAT1	Patented Case	
US7900625 BB	20140828	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7900625 BB	20171114	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL SCIENCE FOUNDATION, VIRGINIA OLDPARTY : CONFIRMATORY

LICENSE; ASSIGNOR:NORTH
CAROLINA STATE UNIVERSITY,
RALEIGH; REEL/FRAME:044444/0950
EFFECTIVE DATE : 20171113

US7900625 BB	20181029	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US7900625 BB	20190415	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US7900625 BB	20190415	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7900625 BB	20190415	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7900625 BB	20190507	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190308
US7900625 BB	20290322	PEXP		Calculated Patent Term Expiry (PTA 940 days)	
WO08048234 A2	20080424	LSPB	+	published / reissued	
WO08048234 A2	20080227	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO08048234 A3	20081008	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 06851692 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :