

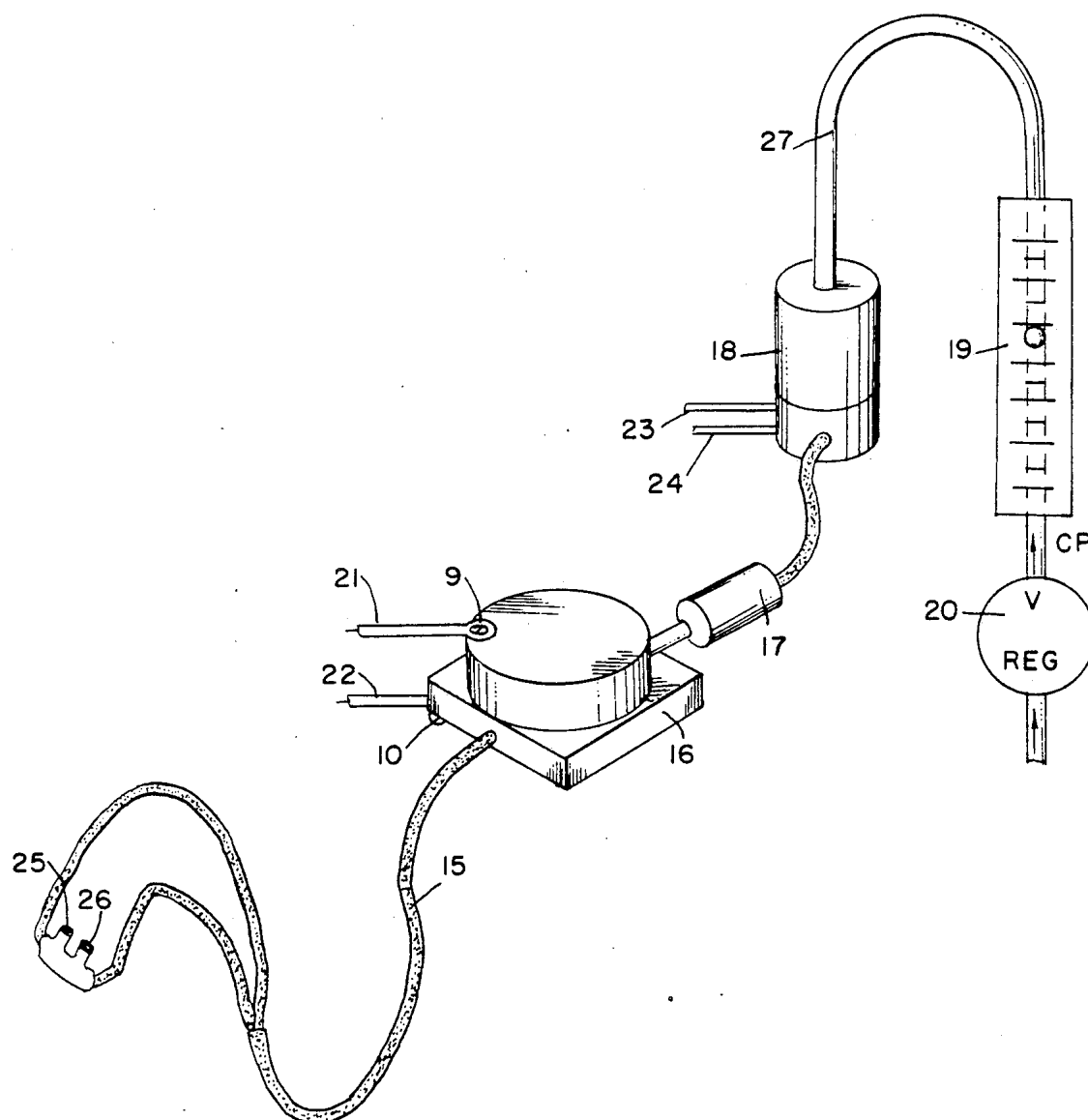
9 Documents

Publication numbers	Title	Current assignees
US5052400 A	Method and apparatus for using an inhalation sensor for monitoring and for inhalation therapy	DIETZ HENRY G
IL-116236 A	Respirator	CARDIOPULMONARY
CA2823861 A1	Apparatus for tracking compliance with a treatment for obstructive sleep apnea	AIR LIQUIDE
CA2912125 A1	Breathable gas apparatus with humidifier	& PRO SERVICES, ...
CA2859814 A1	Systems and methods for therapeutic intrathoracic pressure regulation	ZOLL MEDICAL
WO201129074 A1	Methods, systems and devices for non-invasive ventilation including a non-sealing ventilation interface with an entrainment port and/or pressure feature	BREATHE TECHNOLOGIES
WO201038233 A1	Device for pulsating drug delivery	RESPINOVA
CN205460252U U	It spouts medicine device to breathe internal medicine	Xiong Hanzhong
WO200942973 A1	Methods and devices for treating sleep apnea	BREATHE TECHNOLOGIES

Family 1/9 - FAMPAT - ©Questel

Title

(US5052400)

Method and apparatus for using an inhalation **sensor** for monitoring and for inhalation **therapy****Images****Publication data including kind & date**[US5052400](#)

A

1991-10-01

US5052400

**Abstract**

(US5052400)

An inhalation **sensor** which uses a non-metallic diaphragm that is metallized on one side, pre-stressed, and used as one plate of a variable capacitance **pressure** transducer to sense the inhalation and exhalation of air from the nostrils and/or mouth of a patient. The inhalation **sensor** is used for inhalation **therapy** by triggering a prescribed dose of therapeutic gas when inhalation takes place. The inhalation **sensor** can also be used as a monitor to detect apnea (the absence of breathing).

Inventors

DIETZ HENRY G

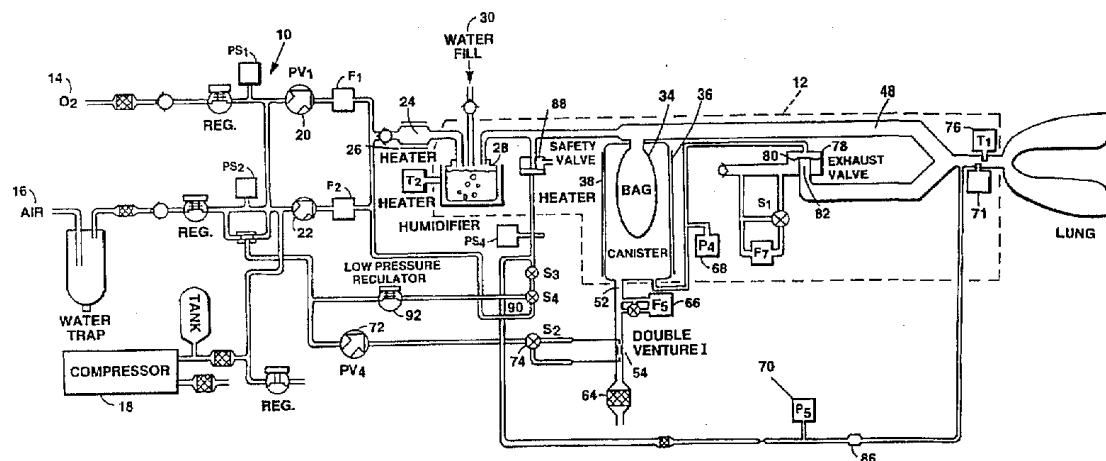
Family 2/9 - FAMPAT - ©Questel

Title

(EP-796119)

Respirator

Images



Publication data including kind & date

IL116236	A	1996-03-31	IL-116236
WO9617641	A1	1996-06-13	WO9617641
AU4639196	A	1996-06-26	AU9646391
US5664563	A	1997-09-09	US5664563
EP0796119	A1	1997-09-24	EP-796119
AU689371	B2	1998-03-26	AU-689371
JPH10510182	A	1998-10-06	JP10510182
EP0796119	B1	1999-10-27	EP-796119
DE69513042	D1	1999-12-02	DE69513042
DE69513042	T2	2000-02-03	DE69513042
IL116236	B	2000-07-16	IL-116236



Abstract

(EP-796119)

A pneumatic system for a ventilator is provided for controlling inspired and expired patient gas flow during **respiratory therapy**. The pneumatic system includes a pneumatic circuit for controlling a supply of one or more selected gases to a patient and a disposable patient breathing circuit for isolating exhaled patient gasses from the pneumatic circuit. The pneumatic circuit includes a dual **venturi** (54) for assisting compression and expansion of a flexible gas reservoir (34) of the patient breathing circuit (12).

Inventors

SCHROEDER GARY

BIONDI JAMES W

JOHNSTON DOUGLAS M

Latest standardized assignees - inventors removed

CARDIOPULMONARY

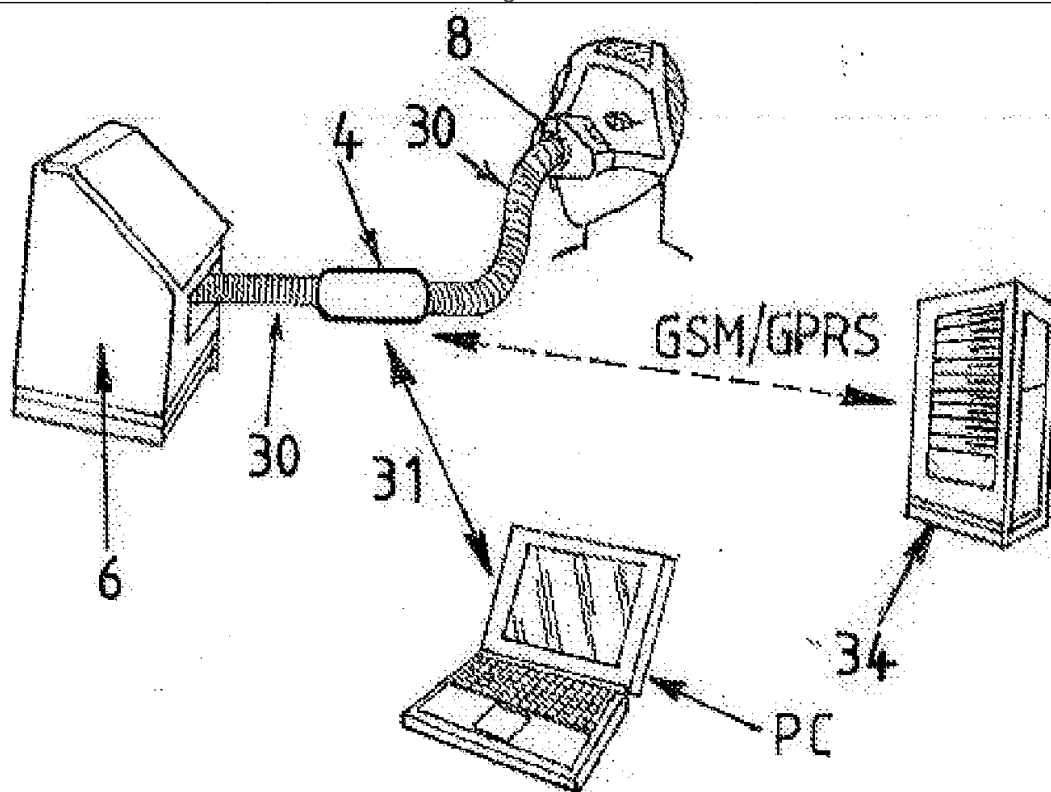
Family 3/9 - FAMPAT - ©Questel

Title

(EP2678061)

Apparatus for tracking compliance with a treatment for obstructive sleep apnea

Images



Publication data including kind & date

CA2823861	A1	2012-08-30	CA2823861
WO2012114004	A1	2012-08-30	WO2012114004
FR2971930	A1	2012-08-31	FR2971930
AU2012220479	A1	2013-07-25	AU2012220479
CN103391793	A	2013-11-13	CN103391793
US20130331726	A1	2013-12-12	US20130331726
EP2678061	A1	2014-01-01	EP2678061
FR2971930	B1	2014-02-28	FR2971930
JP2014508595	A	2014-04-10	JP2014508595



Abstract

(EP2678061)

The invention relates to an apparatus (2, 4) for tracking a treatment for obstructive sleep apnea, including a gas passage (10) and a **Venturi** tube (16) having a cylindrical inlet (40) and outlet (42), said **Venturi** tube (16) being axially arranged in said gas passage (10), a first **pressure sensor** (101), and a second **pressure sensor** (102). The diameters (D1) of the inlet (40) and outlet (42) of the **Venturi** tube (16) are between 10 and 25 mm. The **Venturi** tube (16) includes, arranged in series between said inlet (40) and outlet (42), a convergent portion (44) having the shape of an arc (46, 48), a cylindrical neck (50), the diameter of which is smaller than the diameter (D1) of the inlet (40), and a divergent portion (52) characterized by an angle of divergence (a) of between 5° and 15°. The invention also relates to equipment for treating sleep apnea, which includes a pressurized-gas source (6) connected to a breathing mask (8) via a gas duct (30), as well as to an apparatus (2, 4) according to the invention, which is arranged between said gas source (6) and said breathing mask (8).

Inventors

WEBER CLAUDE

Latest standardized assignees - inventors removed

AIR LIQUIDE

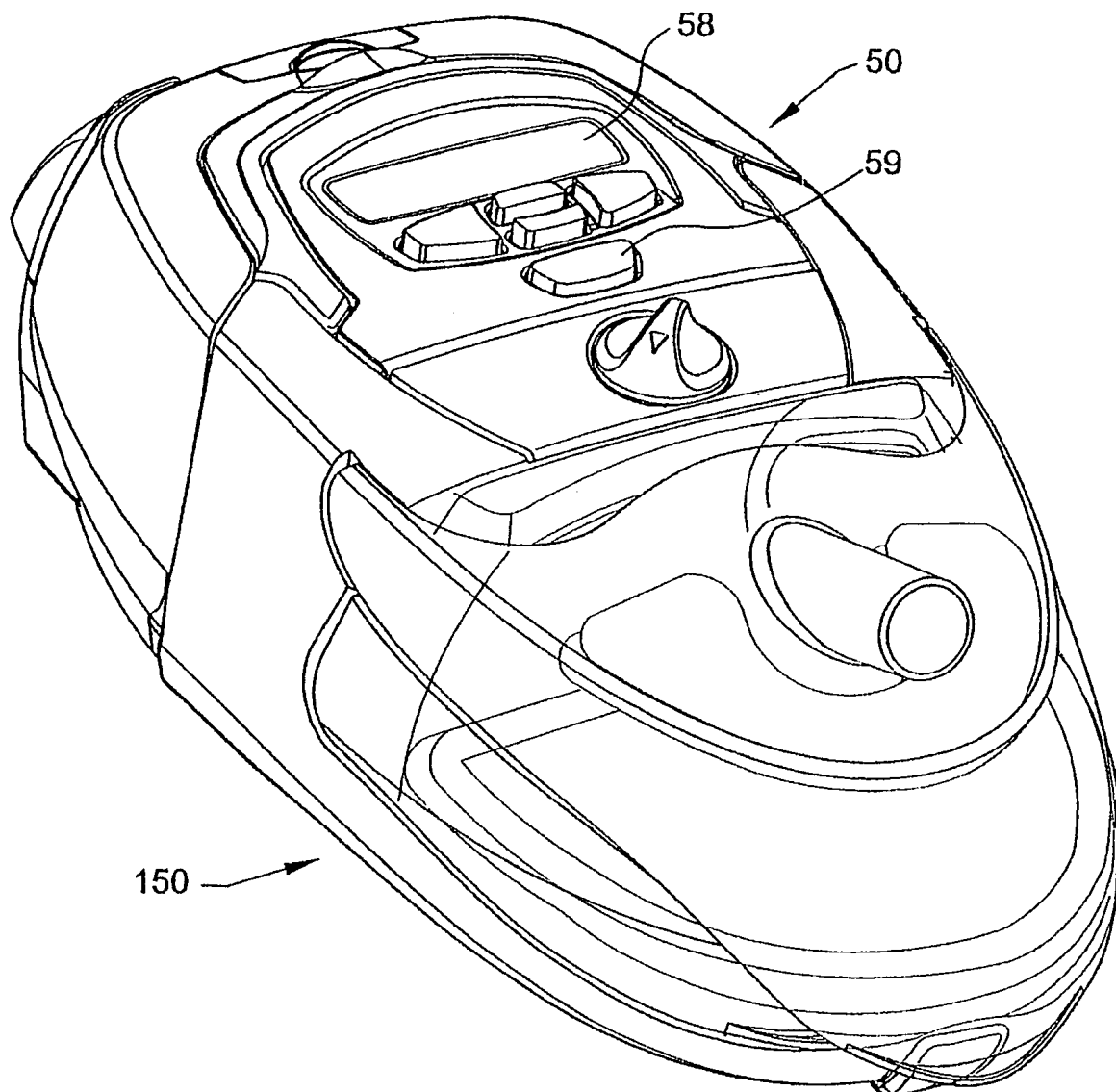
Family 4/9 - FAMPAT - ©Questel

Title

(EP2910271)

Breathable gas apparatus with humidifier

Images



Publication data including kind & date

CA2912125	A1	2004-12-29	CA2912125
WO2004112873	A1	2004-12-29	WO2004112873
CA2753378	A1	2004-12-29	CA2753378
CA2528314	A1	2004-12-29	CA2528314
AU2004248855	A1	2004-12-29	AU2004248855
EP1648544	A1	2006-04-26	EP1648544
CN1809397	A	2006-07-26	CN1809397
US20080072900	A1	2008-03-27	US20080072900
JP2008518640	A	2008-06-05	JP2008518640
NZ544765	A	2009-01-31	NZ-544765
EP1648544	A4	2009-11-18	EP1648544
AU2010201899	A1	2010-06-03	AU2010201899
CN1809397	B	2010-06-16	CN1809397B
US20100192094	A1	2010-07-29	US20100192094
NZ573227	A	2010-07-30	NZ-573227
AU2004248855	B2	2010-08-19	AU2004248855



AU2010201899	B2	2010-09-16	AU2010201899				
JP2010214149	A	2010-09-30	JP2010214149				
DE202004021774	U1	2010-11-18	DE202004021774				
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AU2010241520	B2	2011-01-06	AU2010241520				
AU2010257238	A1	2011-01-13	AU2010257238				
CN101947343	A	2011-01-19	CN101947343				
AU2004248855	B8	2011-01-20	AU2004248855				
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US20110017212	A1	2011-01-27	US20110017212				
US20110023877	A1	2011-02-03	US20110023877				
JP2011045730	A	2011-03-10	JP2011045730				
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DE202004021798	U1	2011-03-17	DE202004021798				
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JP2011072830	A	2011-04-14	JP2011072830				
AU2010241520	B8	2011-04-28	AU2010241520				
EP1648544	B1	2011-07-27	EP1648544				
US20110180068	A1	2011-07-28	US20110180068				
ATE517649	T	2011-08-15	ATE517649				
US8006691	B2	2011-08-30	US8006691				
US8020551	B2	2011-09-20	US8020551				
US8028693	B2	2011-10-04	US8028693				
US8042535	B2	2011-10-25	US8042535				
EP2392375	A2	2011-12-07	EP2392375				
JP2011251174	A	2011-12-15	JP2011251174				
NZ585683	A	2011-12-22	NZ-585683				
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AU2010257238	B2	2012-12-20	AU2010257238				
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EP2392375	A3	2013-07-10	EP2392375				
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JP2014111151	A	2014-06-19	JP2014111151				
US20140332003	A1	2014-11-13	US20140332003				
US20140332002	A1	2014-11-13	US20140332002				
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JP5666406	B2	2015-02-12	JP5666406				

CN104353165	A	2015-02-18	CN104353165				
JP2015051347	A	2015-03-19	JP2015051347				
JP5702958	B2	2015-04-15	JP5702958				
US9038632	B2	2015-05-26	US9038632				
US9038631	B2	2015-05-26	US9038631				
JP2015110149	A	2015-06-18	JP2015110149				
US9072860	B2	2015-07-07	US9072860				
EP2910271	A1	2015-08-26	EP2910271				
CN102784432	B	2015-09-02	CN102784432B				
US20150306336	A1	2015-10-29	US20150306336				
CN105194774	A	2015-12-30	CN105194774				
US9227035	B2	2016-01-05	US9227035				
EP2392375	B1	2016-01-06	EP2392375				
CA2753378	C	2016-01-19	CA2753378				
ES2559015	T3	2016-02-10	ES2559015				
US20160114122	A1	2016-04-28	US20160114122				
US9358359	B2	2016-06-07	US9358359				
US20160175554	A1	2016-06-23	US20160175554				
CN103816592	B	2016-11-02	CN103816592B				
JP6035256	B2	2016-11-30	JP6035256				
US9539409	B2	2017-01-10	US9539409				
NZ710686	A	2017-02-24	NZ-710686				
JP2017042633	A	2017-03-02	JP2017042633				
US20170087327	A1	2017-03-30	US20170087327				
US9610420	B2	2017-04-04	US9610420				
JP6113140	B2	2017-04-12	JP6113140				
JP2017104735	A	2017-06-15	JP2017104735				
US20170182270	A1	2017-06-29	US20170182270				
CN104353165	B	2017-08-22	CN104353165B				
USRE46543	E1	2017-09-12	USRE46543				
JP6198766	B2	2017-09-20	JP6198766				
US20180140792	A1	2018-05-24	US20180140792				
CN105194774	B	2018-06-01	CN105194774B				
JP2018118135	A	2018-08-02	JP2018118135				

Abstract

(EP2910271)

The present invention relates to a humidifier (150) for delivering humidified breathable gas to a patient. The humidifier (150) comprises a base unit configured to attach to and detach from a flow generator (50). The base unit comprising a front cover (602) and a rear cover (803). The humidifier further comprises a water container with an inlet (801) and an outlet (716) and is attachable to and detachable from the base unit. Additionally, the humidifier comprises a sealed air path from an outlet (110) of the flow generator (50) to a humidified gas outlet (716). The sealed air path includes an elastomer airway seal (722) that fits between the front and rear covers (602, 803) and an intermediate gas flow path adapted to direct gas into a headspace of the water container with a swirling motion.

Inventors

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 CRUMBLIN GEOFFREY
 TREVOR-WILSON DUNCAN LOVEL
 LITHGOW PERRY DAVID
 VIRR ALEXANDER
 RICHMOND DONALD ANGUS
 JEHA SIMONE MARIE
 PAYNE MARK JOHN
 MURRAY ANDREW CHARLES
 KAO DAN
 JANIAC MICHAEL THOMAS

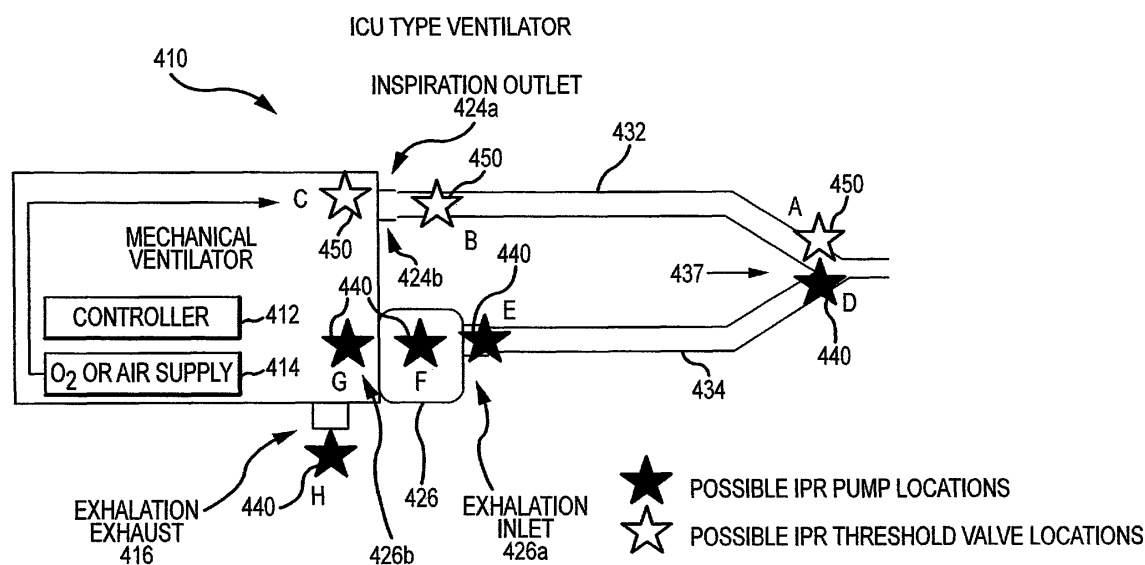
Family 5/9 - FAMPAT - ©Questel

Title

(EP2793985)

Systems and methods for therapeutic intrathoracic **pressure** regulation

Images



Publication data including kind & date

CA2859814	A1	2013-06-27	CA2859814
WO2013096495	A1	2013-06-27	WO201396495
US20140005566	A1	2014-01-02	US20140005566
AU2012358977	A1	2014-07-24	AU2012358977
KR20140116878	A	2014-10-06	KR20140116878
EP2793985	A1	2014-10-29	EP2793985
JP2015500733	A	2015-01-08	JP2015500733
EP2793985	A4	2015-06-24	EP2793985
US9238115	B2	2016-01-19	US9238115
US20160114113	A1	2016-04-28	US20160114113
US10034991	B2	2018-07-31	US10034991



Abstract

(EP2793985)

Embodiments of the present invention provide systems and methods for delivering **respiratory** treatment to a patient. For example, a treatment system may include a mechanism for delivering a positive **pressure** breath to a patient, and one or

more limb flow control assemblies which modulate gas flow to and from the patient. Exemplary treatment techniques are embodied in anesthesia machines, mechanical ventilators, and manual ventilators.

Inventors

HOMUTH JAMES

VOSS GREG

LURIE KEITH

METZGER ANJA

Latest standardized assignees - inventors removed

ZOLL MEDICAL

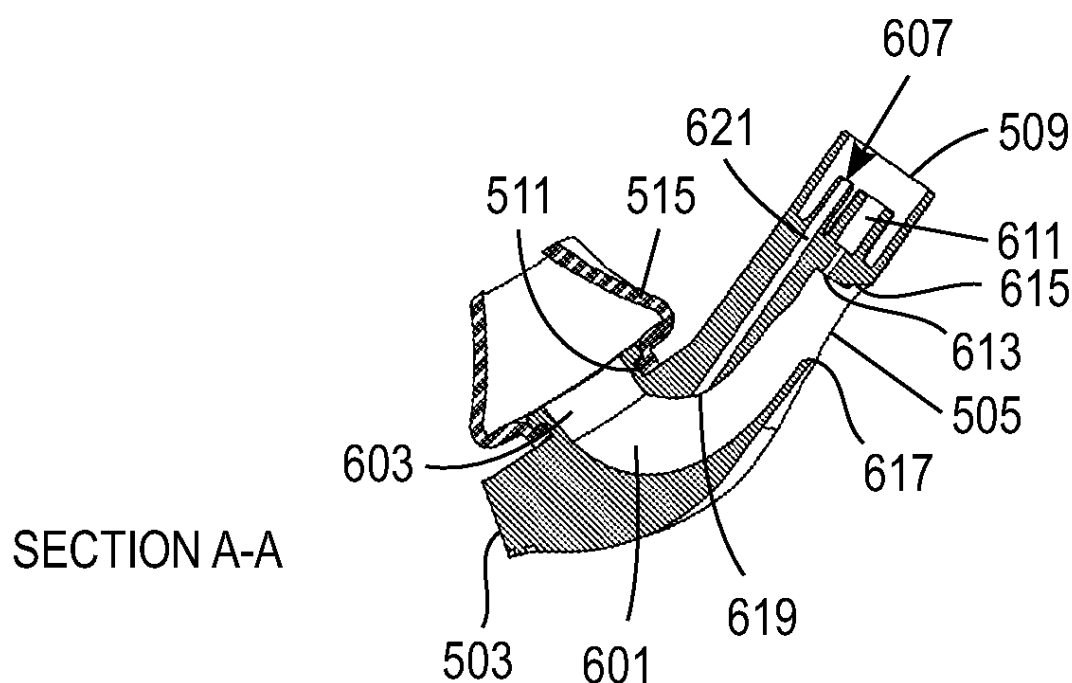
Family 6/9 - FAMPAT - ©Questel

Title

(EP2473221)

Methods, systems and devices for non-invasive ventilation including a non-sealing ventilation interface with an entrainment port and/or pressure feature

Images



Publication data including kind & date

WO2011029074	A1	2011-03-10	WO2011129074
WO2011029073	A1	2011-03-10	WO2011129073
CA2774902	A1	2011-03-10	CA2774902
CA2773048	A1	2011-03-10	CA2773048
US20110214676	A1	2011-09-08	US20110214676
EP2473220	A1	2012-07-11	EP2473220
EP2473221	A1	2012-07-11	EP2473221
CN102625720	A	2012-08-01	CN102625720
CN102762250	A	2012-10-31	CN102762250
JP2013503720	A	2013-02-04	JP2013503720
JP2013503719	A	2013-02-04	JP2013503719
IN1989/CHENP/2012	A	2013-04-26	IN2012CN01989



IN2001/CHENP/2012	A	2013-04-26	IN2012CN02001				
EP2473220	A4	2014-10-01	EP2473220				
JP5758898	B2	2015-08-05	JP5758898				
US9132250	B2	2015-09-15	US9132250				
EP2473221	A4	2015-10-07	EP2473221				
US20150314098	A1	2015-11-05	US20150314098				
CA2774902	C	2017-01-03	CA2774902				
CA2773048	C	2017-01-03	CA2773048				
JP6153725	B2	2017-06-28	JP6153725				
CN102762250	B	2017-09-26	CN102762250B				

Abstract

(EP2473221)

Systems and methods may include a gas source, a gas delivery circuit, and a nasal interface allowing breathing ambient air through the nasal interface. A gas flow path through the nasal interface may have a distal gas flow path opening. A nozzle may be associated with a proximal end of the nasal interface a distance from the distal end gas flow path opening. At least a portion of an entrainment port may be between the nozzle and the distal end gas flow opening. The nozzle may deliver gas into the nasal interface to create a negative **pressure** area in the gas flow path at the entrainment port. The nasal interface and the nozzle may create a positive **pressure** area between the entrainment port and the distal end gas flow path opening. Gas from the gas delivery source and air entrained through the entrainment port may increase airway **pressure** or lung **pressure** or provide ventilatory support.

Inventors

ALLUM TODD

CIPOLLONE JOSEPH

EGHBAL DARIUS

WONDKA ANTHONY D

AGUIRRE JOEY

KAPUST GREGORY

Latest standardized assignees - inventors removed

BREATHE TECHNOLOGIES

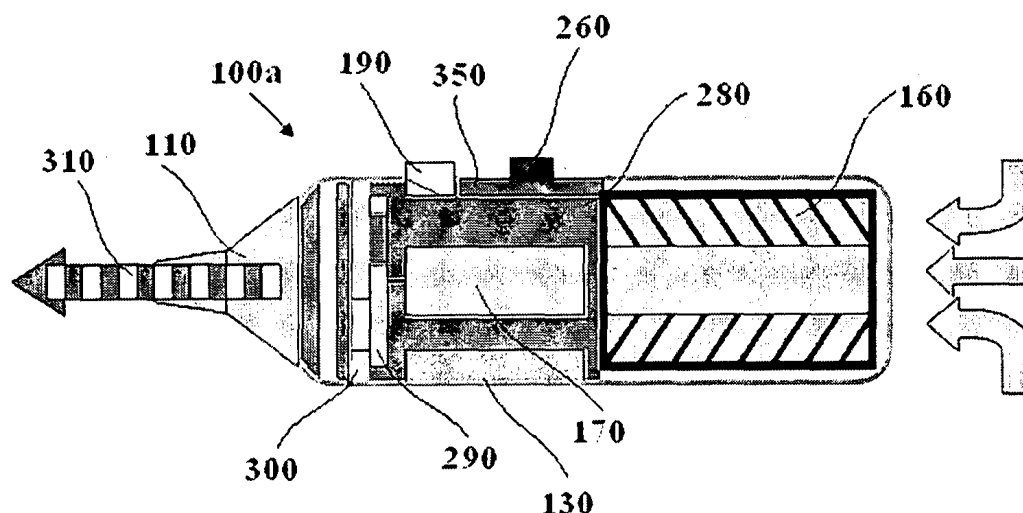
Family 7/9 - FAMPAT - ©Questel

Title

(EP2349422)

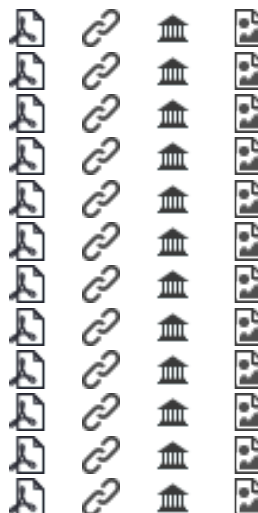
Device for pulsating drug delivery

Images



Publication data including kind & date

WO2010038233	A1	2010-04-08	WO201038233
CA2739703	A1	2010-04-08	CA2739703
IL212150	A	2011-06-30	IL-212150
US20110180067	A1	2011-07-28	US20110180067
EP2349422	A1	2011-08-03	EP2349422
JP2013507147	A	2013-03-04	JP2013507147
EP2349422	A4	2014-03-26	EP2349422
US8875705	B2	2014-11-04	US8875705
IL212150	B	2015-09-24	IL-212150
JP5989340	B2	2016-09-07	JP5989340
EP2349422	B1	2017-05-31	EP2349422
ES2637924	T3	2017-10-17	ES2637924



Abstract

(EP2349422)

An air delivery device (ADD) for applying fluid **pressure** pulses (FPP) to the mouth cavity of a patient at a predetermined frequency according to a protocol. The ADD, comprises: a) an air blower for blowing air into a **pressure** chamber via a first opening (inlet); b) airflow occluding means (AOM) provided in fluid communication with said **pressure** chamber; said AOM located between said first opening and a second opening (outlet) of said **pressure** chamber; c) a patient mouthpiece or Face Mask, in fluid communication with said second opening (outlet); and, d) means for controlling AOM, adapted to interrupt and release said airflow at a predetermined frequency and **pressure**, thereby applying said FPPs to the mouth cavity of a patient according to a predetermined protocol during operation.

Inventors

AVNI YUVAL

Latest standardized assignees - inventors removed

RESPINOVA

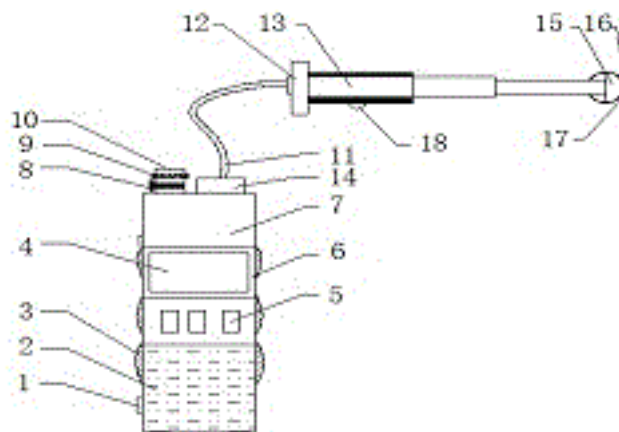
Family 8/9 - FAMPAT - ©Questel

Title

(CN205460252U)

It spouts medicine device to breathe internal medicine

Images

**Publication data including kind & date**

CN205460252

U

2016-08-17

CN205460252U

**Abstract**

(CN205460252U)

The utility model discloses an it spouts medicine device to breathe internal medicine, including spouting medicine device body and drug spraying pipe, the display screen is installed to control panel's top, the both sides of spouting medicine device body are equipped with anti -skidding screw thread, the spray tank is installed to the top of spouting medicine device body, install flow **sensor** and solenoid valve in the liquid medicine import, the atomizer passes through connecting pipe and force (forcing) pump fixed connection, the right side top of shower nozzle is equipped with the miniature camera head, the light is installed to the right side below of shower nozzle, solenoid valve, flow **sensor**, atomizer, force (forcing) pump, miniature camera head and light are all through wire and control panel electric connection. This it spouts medicine device to breathe internal medicine has that work process automation degree of control is high, structural design reasonable, easy operation, practical and easily control the advantages such as accuracy of liquid medicine addition safely, can alleviate medical staff's work burden simultaneously by a wide margin, can generally use widely.

Inventors

XIONG HANZHONG

Family 9/9 - FAMPAT - ©Questel

Title

(EP2203206)

Methods and devices for treating sleep apnea

Images

WONDKA ANTHONY

KAPUST GREGORY

Latest standardized assignees - inventors removed

BREATHE TECHNOLOGIES