

Diego Gonzalez

1) Family number: 30336996 (US2002069878A)

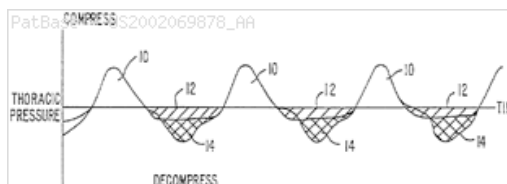
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Title: APPARATUS AND METHODS FOR ENHANCING CARDIOPULMONARY BLOOD FLOW AND VENTILATION

Abstract: According to the invention, methods and devices for increasing cardiopulmonary circulation induced by chest compression and decompression when performing cardiopulmonary resuscitation are provided. According to one method, a pressure responsive inflow valve is coupled to a patient's airway. Chest compressions and chest decompressions are performed. During chest decompression the inflow valve prevents respiratory gases from entering the lungs until a certain negative intrathoracic pressure level is exceeded at which time the one inflow valve opens. In this way, the inflow valve assists in increasing the magnitude and duration of negative intrathoracic pressure during decompression to enhance the amount of blood flow into the heart and lungs. Further, the patient is supplied with a pressurized respiratory gas through the inflow valve when the inflow valve opens to ventilate the patient.

Classifications:

International (ipc 8-9): A01K1/01 A01K1/015 A61B5/00 A61B5/02 A61B5/021 A61B5/08 A61B5/083 A61B5/087 A61B5/145 A61H31/00 A61H31/02 A61M15/00 A61M16/00 A61M16/01 A61M16/04 A61M16/06 A61M16/08 A61M16/10 A61M16/20 A61N1/36 A61N1/372 A62B18/02 A62B18/08 A62B18/10 A62B7/00 A62B7/04 A62B7/10 A62B9/00 A62B9/02 C09K5/04 F16K31/26 F25B31/00 F25B9/00 F25B9/02 G04F5/02 G09B15/00 G09B23/28 (Advanced/Invention); A61M16/00 A61M16/06 A61M16/08 A61M16/12 A61M16/20 A61N1/36 A61N1/39 (Advanced/Non-invention);



A01K1/01 A61B5/00 A61B5/02 A61B5/021 A61B5/08 A61B5/145 A61H31/00 A61M16/00 A61M16/04 A61M16/06 A61M16/20 A61N1/36 A61N1/372 A62B18/00 A62B7/00 A62B7/10 A62B9/00 C09K5/00 F25B31/00 F25B9/00 F25B9/02 G04F5/00 G09B15/00 G09B23/00 (Core/Invention); A61M16/08 A61M16/20 (Core/Non-invention)

International (ipc 1-7): A01K1/015 A01K29/00 A61B5/00 A61B5/021 A61B5/08 A61B5/145 A61H1/00 A61H31/00 A61H31/02 A61M15/00 A61M16/00 A61M16/04 A61M16/06 A61M16/20 A61N1/36 A62B18/02 A62B18/08 A62B18/10 A62B37/00 A62B37/00 A62B7/00 A62B7/00 A62B7/00 A62B7/04 A62B7/10 A62B9/00 A62B9/02 A62B9/06 A62B9/06 A62B9/06 C09K5/04 F16K31/26 F25B9/00 G04F5/02

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European: A01K1/01B2 A61H31/00 A61H31/00H2 A61H31/00H4 A61H31/00H6 A61H31/02 A61M16/00 A61M16/00H A61M16/00K A61M16/04 A61M16/06 A61M16/20 A61M16/20B C09K5/04B2 F25B31/00B2 F25B9/00B4 F25B9/02 G09B23/28W K61H201/01L K61H201/12C K61H201/50C K61H201/50F12 K61H201/50S K61H201/50S20 K61H201/50S8 K61H201/50W K61H230/06 K61H230/20D K61H230/30 K61H230/40 K61H230/42 K61H31/00A2 K61M16/00A10 K61M16/00A11 K61M16/00A14B2 K61M16/00A6 K61M16/00A6D K61M16/00A8B2 K61M16/00M11 K61M16/00M9 K61M16/00P2 K61M16/04 K61M16/06 K61M16/06S K61M16/08D2 K61M16/08D4 K61M16/08D6G K61M16/10F2A K61M16/10F2B K61M16/12 K61M16/20A2 K61M16/20B K61M205/33P K61M205/35R1 K61M205/35T1 K61M205/50 K61M205/50A K61M205/50A1 K61M230/06 K61M230/20D K61M230/20P K61M230/30 K61M230/42 K61M230/43C K61M230/50 K61N1/36Z K61N1/39

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Probable Assignee: ZOLL MEDICAL CORP

Assignee(s): (std): ADVANCED CIRCULATORY SYS INC ; ADVANCED CIRCULATORY SYSTEMS I ; ADVANCED CIRCULATORY SYSTEMS INC ; ALLBROOK DEVELOPMENTS LTD ; APD CRYOGENICS INC ; KEITH G LURIE ; BARBARA GOLD ; CPRX CORP ; HUMMELLE TODD ; CPRX LLC ; GOLD BARBARA ; CPRX LLC A MINNESOTA CORP ; MICHAEL SWEENEY ; LURIE KEITH G ; SWEENEY MICHAEL ; MCKNITE SCOTT ; CPRX INC ; KRUEGER KURT ; LURIE KEITH ; VOSS GREG ; METZGER ANJA ; ADVANCED CIRCULATION SYSTEM CO

Assignee(s): ADVANCED CIRCULATION SYSTEM CORP ; BOYARSKY MIKHAIL ; DOWLING EARL ; YUDIN BORIS ; KLUSMIER LARRY ; MOGORYCHNY VICTOR I ; ZIELINSKI TODD M ; SCHARENBROICH GENE ; ZOLL MEDICAL CORP ; IGC POLYCOLD SYSTEMS INC ; IGC APD CRYOGENICS INC ; HELIX POLYCOLD SYSTEMS INC ; HELIX TECHNOLOGY CORP ; CPRX INC LURIE KEITH G

Inventor(s): (std): LURIC K G ; SWEENEY MICHAEL ; GOLD BARBARA ; MCKNITE SCOTT ; BOYARSKY MIKHAIL ; YUDIN BORIS ; MOGORYCHNY VICTOR I ; KLUSMIER LARRY ; SCOTT LURIE KEITH G MCKNITE ; TODD M ZIELINSKI ; BARBARA GOLD ; KEITH G LURIE ; MICHAEL SWEENEY ; B GOLD ; LURIC KG ; M SWEENEY ; LURIE KEITH G ; LURIE G ; LURIE KEITH ; ANJA METZGER ; GREG VOSS ; KEITH LURIE ; KURT KRUEGER ; METZGER ANJA ; KRUEGER KURT ; VOSS GREG ; SCOTT MCKNITE ; ZIELINSKI TODD ; HUMMELLE TOD ; DOWLING EARL ; GOLD B ; SWEENEY M ; HUMMELLE TODD ; VOELCKEL WOLFGANG ; SCHARENBROICH GENE ; ZIELINSKI TODD M

Inventor(s): GENE SCHARENBROICH ; K G LURIC

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; THOMPSON DOUGLAS B; SMART AND BIGGAR; GOUDREAU GAGE DUBUC; RIDOUT AND MAYBEE LLP; MCCARTHY TETRAULT LLP; HENSELER DANIELA; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; ONDA HIRONORI; ONDA MAKOTO; RYUKA IP LAW FIRM; TOWNSEND AND TOWNSEND AND CREW LLP; KILPATRICK TOWNSEND AND STOCKTON LLP; CASSELL NATHAN S 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 YU ZA ZM ZW

2) Family number: 49410275 (US2011201979A)

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Title: GUIDED ACTIVE COMPRESSION DECOMPRESSION CARDIOPULMONARY RESUSCITATION SYSTEMS AND METHODS

Abstract: Systems and methods for applying guided active compression decompression cardiopulmonary resuscitation are provided. Exemplary systems include a load cell, a handle, an adhesive pad. The handle and the adhesive pad are configured for magnetic coupling.

Classifications:

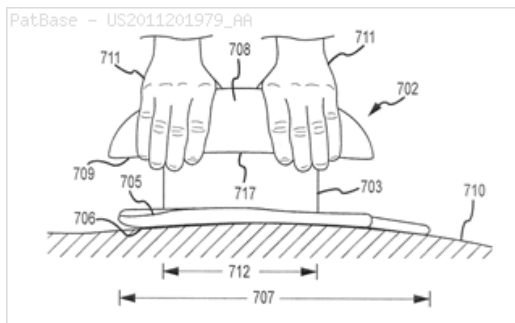
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US: 1/1 128/204.18 128/204.21 128/204.23 128/205.13 424/646 424/646S 434/265 434/265S 514/243 514/243S 514/250 514/250S 514/252.16 514/252.160S 514/263.34 514/263.340S 514/46 514/46S 514/470 514/470S 514/509 514/509S 600/538 601/107 601/41 601/41P

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ZOLL MEDICAL CORP

Assignee(s): (std): LURIE KEITH ; METZGER ANJA ; VOSS GREG ; RESQSYSTEMS INC ; YANNOPOULOS DEMETRIS ; ADVANCED CIRCULATORY SYS INC ; ADVANCED CIRCULATORY SYSTEMS INC ; ZOLL MEDICAL CORP ; VOSS GREGG

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Inventor(s): METZGER ANJAUS ; VOSS GREGUS ; LURIE KEITHUS ; HOMUTH JAMESUS

Agent(s): FB RICE ; FB RICE PTY LTD ; OYEN WIGGS GREEN AND MUTALA LLP ; SPARING ROEHL HENSELER ; GRUENECKER PATENT U RECHTSANWALTE PARTG MBB ; ONDA MAKOTO ; ONDA HIRONORI ; RYUKA IP LAW FIRM ; KILPATRICK TOWNSEND AND STOCKTON LLP ; WEBB LAW FIRM ; CASSELL NATHAN S 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 NZ 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

3) Family number: 11162808 (US5392768A)

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Title: METHOD AND APPARATUS FOR RELEASING A CONTROLLED AMOUNT OF AEROSOL MEDICATION OVER A SELECTABLE TIME INTERVAL

Abstract: A portable, battery powered, hand-held system for releasing a controlled dose of aerosol medication for inhalation by a patient including a durable body and a medication cassette inserted in the durable body. The cassette includes a housing for containing a canister of medication, bears an identification code, and permits the canister to be manually depressed to release a dose, e.g., a metered dose, when out of the durable body. The durable body includes an actuator mechanism for engaging an inserted cassette and its canister, and an actuator release mechanism for controlling the actuator mechanism to depress the canister for a selected period of time to release the desired dose of medication and then the release the canister. The actuator mechanism, includes a compression spring for depressing the canister and a torsion spring for reloading the compression spring. The torsion spring is reloaded by rotating the cassette from an open position for delivering aerosol to a closed position. The actuator release mechanism includes a motor and trigger pin assembly that controls the release of the compression spring and the torsion spring, and, hence, the time that the canister is depressed. The motor operates in response to sensed flow satisfying a selected delivery threshold. The durable body includes a flow sensor having an asymmetrical orifice that is calibrated, independent of the cassette, to convert the sensed pressure due to flow into a flow rate. The orifice is separately calibrated for an inhalation flow rate range and an exhalation flow rate range over a selected number of known flow rates. The sensed pressure value is corrected for transducer offset drift and converted to a flow rate using the calibration data and piecewise linear interpolation.

Classifications:

International (IPC 8-9): A61J7/04 A61M11/00 A61M15/00 A61M16/00 A61M16/20 B01F15/02 B01F3/04 B05B9/04 F16H35/00 G01F1/00 G01F1/36 G01F1/40 G01F1/44 G01F1/50 G01F13/00 G01F15/00 G01F25/00 G01F7/00 (Advanced/Invention); A61J7/04 A61M16/00 A61M16/20 B01F15/02 B01F3/04 G01F1/00 G01F13/00 G01F15/00 (Advanced/Non-invention); A61M15/00 B01F15/02 B01F3/04 G01F1/00 G01F1/34 G01F13/00 G01F15/00 (Core/Invention); A61J7/00 A61M16/00 A61M16/20 (Core/Non-invention)

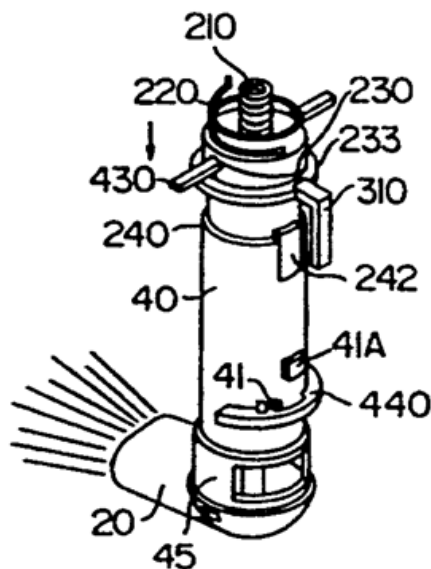
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Probable Assignee: ARADIGM CORP

Assignee(s): (std): ARADIGM CORP ; MIRIS MEDICAL CORP

Assignee(s): MIRIS MEDICAL INC ; MIRIS MEDICAL INC A CORP OF CA ; RUBSAMEN REID M ; ARADIGM CORP HAYWARD ; GOODMAN DAVID E ; ARADEIGUMU CORP ; ARADIGM

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Inventor(s): PETER M LLOYD ; CARL RITSON ; ERIC T JOHANSSON ; REID M RUBSAMEN ; GUTSUDOMAN DEIBITSUDO II ; RABUSAMEN RIIDO EMU

Agent(s): RIDOUT AND MAYBEE LLP

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA UZ VN

Abstract: An apparatus for performing ambient ionisation mass and/or ion mobility spectrometry is disclosed. The apparatus comprises a substantially cylindrical, tubular, rod-shaped, coil-shaped, helical or spiral-shaped collision assembly; and a first device arranged and adapted to direct analyte, smoke, fumes, liquid, gas, surgical smoke, aerosol or vapour onto said collision assembly.

Classifications:

International (IPC 8-9): A61B1/00 A61B1/012 A61B1/018 A61B1/04

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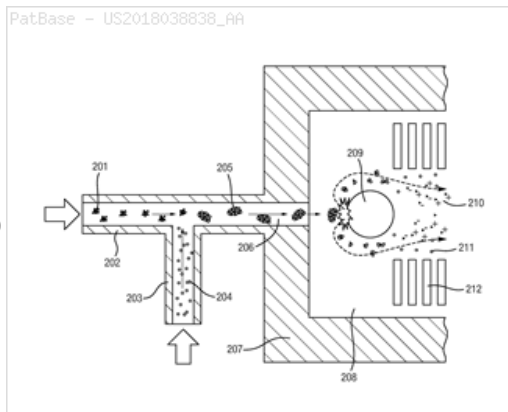
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Probable Assignee: MICROMASS LTD

Assignee(s): (std): MICROMASS LTD ; MICROMASS UK LTD

Assignee(s): KARANCSI TAMAS ; JONES EMRYS ; HESS ANTHONY ; NICHOLSON JEREMY K ; KINROSS JAMES ; MORRIS MICHAEL RAYMOND ; LANGRIDGE JAMES IAN ; HESSE ANTHONY ; TAKATS ZOLTAN ; SIMON DANIEL ; O BRIEN STEPHEN ; TRIVETT IAN ; SZALAY DANIEL ; PRINGLE STEVEN DEREK ; RICHARDSON KEITH ; BALOG JULIA ; BOLT FRANCES ; CHUA ALVIN ; GODORHAZY LAJOS ; HENDERSON MATT

Inventor(s): (std): OBRIEN STEPHEN ; JAMES IAN LANGRIDGE ; MICHAEL RAYMOND MORRIS ; EMRYS JONES ; KEITH RICHARDSON ; STEPHEN O BRIEN ; FRANCES BOLT ; BENNETT PHILIP ROBERT ; HESSE ANTHONY ; GODORHAZY LAJOS ; BOLT FRANCES ; CHUA ALVIN ; HENDERSON MATT ; HESS ANTHONY ; TRIVETT IAN ; MACINTYRE DAVID ALAN ; PRUSKI PAMELA ; BENNETT PHILLIP ROBERT ; JEREMY K NICHOLSON ; JAMES KINROSS ; MATT HENDERSON ; ALVIN CHUA ; ANTHONY HESSE ; IAN TRIVETT ; TAMAS KARANCSI ; ZOLTAN TAKATS ; STEVEN DEREK PRINGLE ; JULIA BALOG ; DANIEL SIMON ; DANIEL SZALAY ; LAJOS GODORHAZY ; G D RHAZY LAJOS ; STEVE PRINGLE ; TAKATS ZOLTAN ; SZALAY DANIEL ; SIMON DANIEL ; RICHARDSON KEITH ; PRINGLE STEVEN DEREK ; NICHOLSON JEREMY K ; MORRIS MICHAEL RAYMOND ; LANGRIDGE JAMES IAN ; KINROSS JAMES ; KARANCSI TAMAS ; JONES EMRYS ; GOEDORHAZY LAJOS ; BALOG JULIA ; O BRIEN STEPHEN

Inventor(s): SZALAY D NIEL

Agent(s): RIDOUT AND MAYBEE LLP; JEFFREY PHILIP MICHAEL; YAMADA TAKUJI; KAWABATA JUNICHI; CHIVA ANDREW PETER

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

5) Family number: 56489788 (US2015283342A)

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Title: SYSTEM AND METHOD FOR MONITORING RESUSCITATION OR RESPIRATORY MECHANICS OF A PATIENT

Abstract: A system and method for monitoring resuscitation and respiratory mechanics of a patient is provided. A pressure sensor detects air pressure within an air-flow path of a resuscitator and generates a first detection signal in response thereto. A flow-rate sensor detects the flow-rate within the air-flow path and generates a second detection signal in response thereto. A processor receives and processes the first and second detection signals using an algorithm to identify a ventilation rate, a lung pressure, and an air volume corresponding to the respiratory air. A report is generated of real-time feedback about respiration of the patient that includes the ventilation rate, lung pressure, and air volume.

Classifications:

International (IPC 8-9): A61B5/08 A61B5/085 A61B5/087

A61M16/00 G09B23/28 (Advanced/Invention)

CPC: A61B5/087 A61M2016/0036 A61M2205/581 A61M2205/582

A61M2205/583 A61M2205/8206 A61M2205/8212 A61B5/085

A61B5/0935 A61M16/0078 A61M16/0003 A61M2016/0033

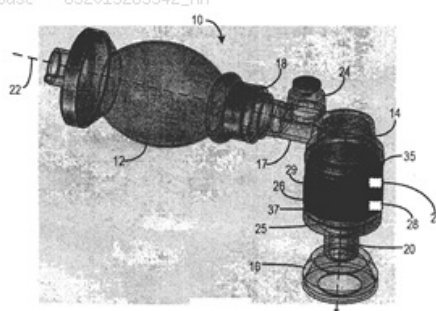
A61M16/04 A61M16/0051 A61M2016/0027 A61M2205/075

A61M2205/15 A61M2205/502 A61M2205/52 G09B23/288

A61M16/021

US: 128/202.22 128/205.13 434/265

PatBase - US2015283342_AA



Family:

Publication number	Publication date	Application number	Application date
EP2919650 A1	20150923	EP20130855912	20131119
EP2919650 A4	20160727	EP20130855912	20131119
IN01947KN2015 A	20160129	IN2015KN01947	20150619
US2015283342 AA	20151008	US20130443405	20131119
WO14078840 A1	20140522	WO2013US70745	20131119

Priority:

US20120728211P 20121119

US20130443405 20131119

WO2013US70745 20131119

Probable Assignee: GEN HOSPITAL COLLECTION

Assignee(s): (std): CEDRONE KEVIN ; DATA SANOTRINO ; GEN HOSPITAL COLLECTION ; GEN HOSPITAL CORP ; OLSON KRISTIAN ; MIELCARZ CRAIG

Assignee(s): GENERAL HOSPITAL COLLECTION ; GENERAL HOSPITAL CORP

Inventor(s): (std): OLSON KRISTIAN ; CEDRONE KEVIN ; MIELCARZ CRAIG ; DATA SANOTRINO

Agent(s): SAMSON AND PARTNER PATENTANWALTE MBB; COOK JACK 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 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

6) Family number: 49013082 (US2012232420A)

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Title: RESPIRATION MONITORING

Abstract: (EN) Respiration of a patient can be monitored by means of a device (ASD) that has the following characteristics. An inlet (IL) receives a pressurized airflow of breathable air from an airflow source. An outlet (OL) applies the pressurized airflow to a mask worn by the patient. An airflow path (AFP) is arranged between the inlet (IL) and the outlet (OL). The airflow path (AFP) has an axis (AX) and exhibits a decrease (-DELTAD) in diameter followed by an increase (+DELTAD) in diameter in a direction from the inlet (IL) to the outlet (OL). The increase (+DELTAD) in diameter comprises an initial portion (WI) in which the diameter increases according to a slope (?) of less than 10 degrees with respect to the axis (AX). A pressure measurement arrangement (PS1, PS2) provides an indication (SO) of a pressure difference in the pressurized airflow between two sections (IN, T) of the airflow path that have different diameters.

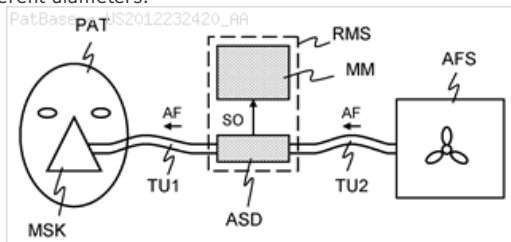
Classifications:

International (IPC 8-9): A61B5/00 A61B5/08 A61B5/087 A61M16/00 A61M16/06 A62B9/00 G01F1/36 G01F1/44 (Advanced/Invention); A61M16/06 (Advanced/Non-invention)

CPC: A61B5/087 A61B5/4818 A61M16/06 A61M2016/0036 A61M2205/15 A61M2205/8212 G01F1/363 G01F1/44 A61M2016/0027 A61M16/021

European: A61B5/087 A61B5/48C8 A61M16/00 A61M16/00K G01F1/36A G01F1/44 K61M16/00A14B2 K61M16/06 K61M205/15 K61M205/82B2

US: 1/1 600/538



Family:

Publication number	Publication date	Application number	Application date
CN102753093 A	20121024	CN201080062987	20101201
CN102753093 B	20141203	CN201080062987	20101201
DE602010023247 D1	20150430	DE201060023247T	20101201
DK2506766 T3	20150622	DK20100784549T	20101201
EP2329768 A1	20110608	EP20090306170	20091202
EP2506766 A1	20121010	EP20100784549	20101201
EP2506766 B1	20150318	EP20100784549	20101201
ES2545497 T3	20150911	ES20100784549T	20101201
US2012232420 AA	20120913	US20100512335	20101201
US9462963 BB	20161011	US20100512335	20101201
WO11067300 A1	20110609	WO2010EP68671	20101201

Priority:

EP20090306170 20091202 EP20100784549 20101201 WO2010EP68671 20101201

Probable Assignee: SRETT

Assignee(s): (std): SALAMITOU PHILIPPE ; SALAMITOU PHILIPPE ; SRETT

Inventor(s): (std): SALAMITOU PHILIPPE ; PHILIPPE SALAMITOU ; SALAMITOU PHILIPPE

Agent(s): DEN BRABER GERARD PAUL; PONS ANGEL; JANSSON FIRM; PEHR B

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 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

7) Family number: 52443000 (US2012302910A)

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Title: WIRELESS VENTILATOR REPORTING

Abstract: Systems and methods regarding ventilation of a patient, such as a victim at the scene of an emergency are described herein.

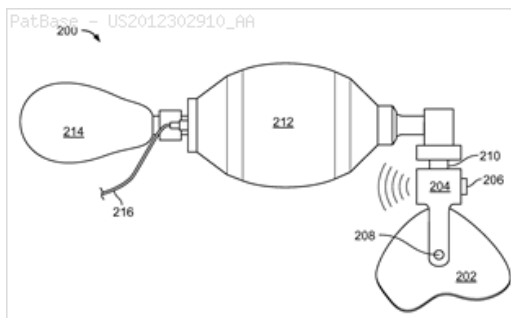
Classifications:

International (IPC 8-9): A61B5/08 A61B5/087 A61B5/097 A61H31/00 A61M16/00 A61M16/08 A61N1/00 A61N1/39 (Advanced/Invention); A61H31/00 A61M16/08 (Advanced/Non-invention)

CPC: A61M16/0003 A61M16/0069 A61N1/3987 A61M2016/003 A61M2205/054 A61M16/0084 A61M2016/0027 A61M2205/583 A61H31/00 A61H31/005 A61H2201/5071 A61H2201/5084 A61H2230/205 A61H2230/207 A61H2230/42 A61H2230/80 A61M16/0078 A61M16/021 A61M16/0858 A61M2016/0024 A61M2016/0036 A61M2205/15 A61M2205/332 A61M2205/3569 A61M2205/3592 A61M2205/505 A61M2205/581 A61M2205/587 A61M2230/432 A61M2230/46 A61M16/00

European: A61M16/00 K61M16/00A10 K61M16/00A14B2 K61M16/00A8B4 K61M16/00M11 K61M16/00M9 K61M205/15 K61M205/33F K61M205/50A1 K61M205/58B K61M205/58D K61M205/58L K61M230/43C K61M230/46

US: 128/202.16 128/205.13 600/538



Family:

Publication number	Publication date	Application number	Application date
CN103619390 A	20140305	CN201280025072	20120516
CN103619390 B	20160113	CN201280025072	20120516
CN105597207 A	20160525	CN201510993877	20120516
EP2707068 A1	20140319	EP20120723345	20120516
JP2014518725 T2	20140807	JP20140512879T	20120516
US2012302910 AA	20121129	US20120473002	20120516
US2016206839 AA	20160721	US20160063925	20160308
US10137265 BB	20181127	US20120473002	20120516
WO12162048 A1	20121129	WO2012US38076	20120516

Priority:

US20110489086P 20110523 CN201280025072 20120516 US20120473002 20120516
WO2012US38076 20120516 US20160063925 20160308

Probable Assignee: ZOLL MEDICAL CORP**Assignee(s):** (std): CLOUTIER JON P ; FREEMAN GARY A ; HERKEN DR ULRICH ; HERKEN ULRICH ; SILVER ANNEMARIE ; ZOLL MEDICAL CORP**Inventor(s):** (std): HERKEN DR ULRICH ; CLOUTIER JON P ; SILVER ANNEMARIE ; HERKEN ULRICH ; FREEMAN GARY A**Agent(s):** SLINGSBY PARTNERS LLP; ONDA MAKOTO; ONDA HIRONORI; RYUKA IP LAW FIRM; WEBB LAW FIRM; DRAKE TONYA S**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**8) Family number: 68121497 (CO16142456A)**

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Title: DISPOSITIVO PARA REALIZAR TERAPIAS RESPIRATORIAS Y PROCESO DE CONTROL Device for respiratory therapies AND CONTROL PROCESS (Machine translation)

Abstract: Source: CO16142456A [ES] [Source: Claim 1] 1. Un dispositivo para realizar terapias respiratorias que comprende: - un tubo Venturi; a través del tubo Venturi ingresa aire espirado e inspirado; - un sensor diferencial de presión operativamente dispuesto en el tubo Venturi; - un primer ducto conectado al tubo Venturi, en el primer ducto se dispone una primera electroválvula y una segunda electroválvula; y, - una unidad de control, a la unidad de control se conecta el sensor diferencial de presión, la primera electroválvula y la segunda electroválvula. **Machine translation:** [Source: Claim 1] 1. A device for performing respiratory therapies comprising: - a tube Venturi; through the Venturi tube enters expired air and inspired; - a pressure differential sensor operatively arranged in the Venturi tube; - a first pipeline connected to the Venturi tube, in the first pipeline is arranged a first and a second solenoid valve solenoid valve; and, - a control unit, the control unit is connected to the differential pressure sensor, the first and the second solenoid valve solenoid valve.

Classifications:**International (IPC 8-9):** A61M16/10 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
CO16142456 A1	20171121	CO20160142456	20160531

Priority:

CO20160142456 20160531

Probable Assignee: UNIVERSIDAD CES**Assignee(s):** UNIVERSIDAD CES ; UNIVERSIDAD EIA**Inventor(s):** ANDRES GUERRA CEBALLOS ; YEISON JAVIER MONTAGUT FERIZZOLA**Agent(s):** CARLOS REINALDO OLARTE GARCIA**9) Family number: 59633296 (CO5660052U)**

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Title: RESPIRADOR PORTATIL PARA EMERGENCIAS MEDICAS Y TRASLADO DE PACIENTES Portable ventilator for medical emergencies and transferring patients (Machine translation)

Abstract: Source: CO5660052U [ES] 1.- Respirador para emergencias medicas y traslado de pacientes, caracterizado por ser portatil, ciclado por presión con cálculo de volumen y poseer cuatro modos básicos de ciclado: CMV (modo controlado), AMV (modo asistido), A/CMV (modos asistido/controlado) y modo PEEP/CPAP. 2.- Respirador para emergencias medicas y traslado de pacientes, de acuerdo a la reivindicación 1, caracterizado por poseer un circuito electrónico con una parte analógica y una parte digital que en conjunto permiten controlar y visualizar los parámetros de: tiempo inspiratorio, tiempo espiratorio, frecuencia respiratoria y relación inspiración/espiración. 3.- Respirador para emergencias medicas y traslado de pacientes, de acuerdo a la reivindicación 1, caracterizado por poseer cuatro posibles formas de alimentación eléctrica: batería interna, 110 voltios/60 Hz. de alimentación de línea, 12 VCC y 24 VCC externos que pueden ser conectadas simultáneamente sin riesgos ni daños para el equipo, para el operador y/o el paciente. 4.- Respirador para emergencias medicas y traslado de pacientes, de acuerdo a las reivindicaciones 1 y 2, caracterizado por poseer un transductor de presión diferencial compensado en temperatura, que genera una señal electrónica que es acondicionada para visualizar el valor de presión en el manómetro electrónico del panel frontal y para ser utilizada en el ciclado del equipo. 5.- Respirador para emergencias medicas y traslado de pacientes, de acuerdo a las reivindicaciones 1 y 2, caracterizado por poseer un circuito neumático de ciclado controlado electrónicamente que consta de una entrada con acople rápido para oxígeno, aire comprimido o mezcla tomada de una fuente de suministro de este gas regulada entre 40 y 50 PSI para posteriormente reducir la presión por medio de un sistema venturi que regula el flujo de gas de salida por medio de una válvula reguladora de flujo. El circuito neumático puede observarse en la figura 3. **Machine translation:** 1. Respirator for medical emergencies and transfer of patients, characterized as portable, cycled pressure with calculation of volume and have cycled four basic modes: CMV (controlled mode), AMV (assisted mode), A / CMV (modes assisted / controlled) and PEEP / CPAP mode. 2. Respirator medical and emergency transport of patients, according to claim 1, characterized by having an electronic circuit with an analog part and a digital part which together allow you to control and display parameters: inspiratory time, expiratory time, frequency respiratory relationship and inspiration / expiration. 3. Respirator medical and emergency transport of patients, according to claim 1, characterized by having four possible forms of electrical power supply. Internal battery unit 110 Volt / 60 Hz line power, 12 VDC and 24 VDC external to They can be connected simultaneously without risk or damage to the equipment operator and / or patient. 4. Respirator medical and emergency transport of patients, according to claims 1 and 2, characterized by having a differential pressure transducer with temperature compensation, which generates an electronic signal that is conditioned to display the value of pressure gauge Electronic front panel for use in the cycling team. 5. Respirator medical emergencies and transferring patients, according to claims 1 and 2, characterized by having a cycled pneumatic circuit comprising electronically controlled with fast coupling an inlet for oxygen, air or mixture taken from a source This gas supply regulated between 40 and 50 PSI for subsequently reducing the pressure through a venturi system that regulates the flow of exhaust gas through a flow regulating valve. The pneumatic circuit can be seen in Figure 3.

Classifications:**International (IPC 8-9):** A61M15/00 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
CO5660052 U1	20060731	CO20060022168U	20060306

Priority:

CO20060022168U 20060306

Probable Assignee: CARLOS ALEJANDRO ROMANO

Assignee(s): CARLOS ALEJANDRO ROMANO

Inventor(s): CARLOS ALEJANDRO ROMANO

10) Family number: 64826433 (US2017055875A)

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Title: SYSTEMS, APPARATUS, AND METHODS RELATED TO MODELING, MONITORING, AND/OR MANAGING METABOLISM

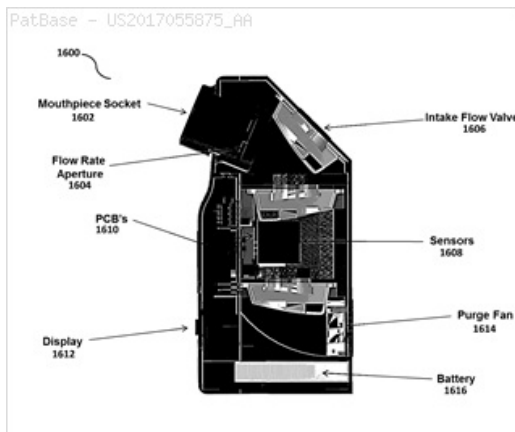
Abstract: Systems, apparatus, and methods related to modeling, monitoring, and/or managing metabolism of a subject include measuring a respiratory quotient (RQ) level in a subject and/or optimizing and executing a nonlinear feedback model to model energy substrate utilization in the subject based on at least one of a macronutrient composition and caloric value of food consumed by the subject, an intensity and duration of activity by the subject, a rate and maximum capacity of glycogen storage in the subject, a rate and maximum capacity of de novo lipogenesis in the subject, a quality and duration of sleep by the subject, and/or an RQ level in the subject.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/08 A61B5/083 A61B5/097 G09B19/00 (Advanced/Invention)

CPC: A61B5/083 G09B19/0092 G09B19/00 A61B5/0816 A61B5/097 A61B2560/0247 A61B5/082 A61B5/0833 A61B5/0836 A61B5/0871 A61B5/4866 A61B5/7275 A61B2560/0223

US: 600/531



Family:

Publication number	Publication date	Application number	Application date
EP3328276 A1	20180606	EP20160831300	20160727
EP3328276 A4	20190320	EP20160831300	20160727
US2017055875 AA	20170302	US20160221313	20160727
US2018125391 AA	20180510	US20170835049	20171207
WO17019783 A1	20170202	WO2016US44288	20160727

Priority:

US20150197324P 20150727 US20160221313 20160727 WO2016US44288 20160727
US20170835049 20171207

Probable Assignee: MASSACHUSETTS INST OF TECHNOLOGY

Assignee(s): (std): FERRAILO CHRISTOPHER ; MASSACHUSETTS INST OF TECH ; MASSACHUSETTS INST TECHNOLOGY ; ZOGBI GEORGE ; SIEGEL ANDREW M

Assignee(s): MASSACHUSETTS INST OF TECHNOLOGY

Inventor(s): (std): ZOGBI GEORGE ; FERRAILO CHRISTOPHER ; SIEGEL ANDREW M ; SHAW GARY A ; CANDELL LAWRENCE M ; HOYT REED WASSON ; MCCLUNG HOLLY LEHMANN

Agent(s): SCHIWECK WEINZIERL AND KOCH PATENTANWALTE PARTNERSCHAFT MBB; TEJA JOSEPH JR 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 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

11) Family number: 1532645 (US4054133A)

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Title: CONTROL FOR A DEMAND CANNULA

Abstract: A control for regulating the flow of a breathable fluid from a storage container to a recipient as a function of the differential between inhalation and exhalation pressure measured in the nasal cavity.

Classifications:

International (IPC 8-9): A61M16/00 A61M16/20 F16K31/00 (Advanced/Invention);

A61M16/00 A61M16/06 (Advanced/Non-invention);

A61M16/00 A61M16/20 (Core/Invention);

A61M16/00 A61M16/06 (Core/Non-invention)

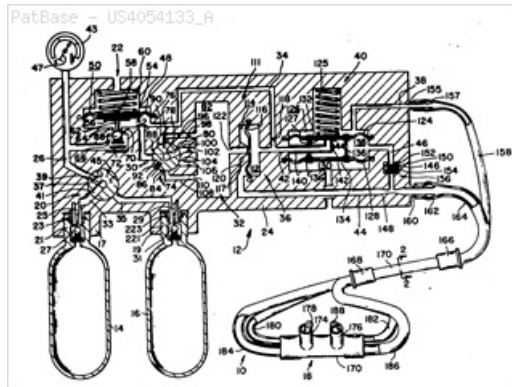
International (IPC 1-7): A61M16/00 A62B7/00 F16K31/00

CPC: A61M16/0677 A61M16/207 A61M16/20 A61M2016/0021 A61M2205/8225

European: A61M16/20 K61M16/00A11 K61M16/00A8B2

K61M16/06L2B K61M16/20A8 K61M205/82C3

US: 128/142.2 128/204.26 128/207.18



Family:

Publication number	Publication date	Application number	Application date
CA1079154 A1	19800610	CA19770272914	19770301
CA1087486 A1	19801014	CA19790335201	19790907
CA1087486 A2	19801014	CA19790335201	19790907
DE2713649 A1	19771013	DE19772713649	19770328
FR2346025 A1	19771028	FR19770008493	19770322
FR2346025 B1	19801017	FR19770008493	19770322
GB1534247 A	19781129	GB19770012031	19770322
JP52118995 A2	19771005	JP19770034077	19770329
US4054133 A	19771018	US19760671195	19760329

Priority:

US19760671195 19760329 CA19770272914 19770301 CA19790335201 19790907

Probable Assignee: BENDIX CORP

Assignee(s): (std): BENDIX CORP

Assignee(s): BENDIX THE CORP ; CONTINENTAL BANK NA ; HEALTHDYNE INC ; HEALTHDYNE INC A CORP OF GA ; HEALTHDYNE TECHNOLOGIES INC ; MYERS WILLIAM P ; BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIA ; BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION AGENT AS

Inventor(s): (std): MYERS WILLIAM P ; MYERS WILLIAM PERRY ; UIRIAMU PII MAIYAAZU

Inventor(s): PERRY MYERS WILLIAM

Agent(s): MACRAE AND CO

12) Family number: 10540846 (US5542416A)

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Title: APPARATUS FOR ASSISTING VENTILATION INCLUDING REDUCED EXHALATION PRESSURE MODE

Abstract: The invention provides apparatus for assisting with the ventilation of a patient, which includes a source (10) of pressurized gas, a transmission circuit including a main inhalation conduit (14) connected to a mask (19) worn by the patient (20), and a secondary exhalation conduit (28), a flow regulating valve (16), and an exhalation valve (30), characterized in that the regulating valve (16) includes means (52) for maintaining a residual flowrate under a reduced pressure in the main inhalation conduit (14) during each exhalation phase.

Classifications:

International (IPC 8-9): A61M16/00 (Advanced/Invention); A61M16/00 (Core/Invention)

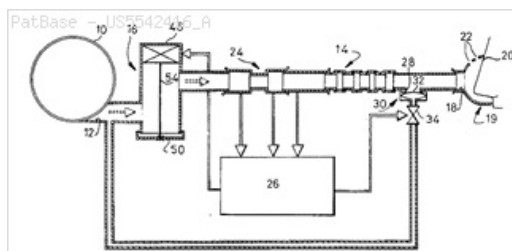
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CPC: A61M2016/0021 A61M2016/0039 A61M16/206 A61M16/202 A61M16/208 A61M16/024 A61M16/0069

European: A61M16/00 K61M16/00A11 K61M16/00A14B4

K61M16/00A20 K61M16/00A8B2 K61M16/00M6P

US: 128/204.23 128/204.25 128/205.24



Family:

Publication number	Publication date	Application number	Application date
AT178498 E	19990415	AT19950400042T	19950110
DE69508821 D1	19990512	DE19956008821	19950110
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FR19940000246 19940112

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13) Family number: 23555102 (US6435183B)

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Title: FLOW SENSING DEVICE

Abstract: A fluid sensing device includes a venturi tube and a fluid resistive element. The venturi tube defines a first open end through which a flow of fluid enters, a second open end from which fluid flow exits and a constricted midportion therebetween. The fluid resistive element is located within the venturi tube. In combination with the tube, the fluid resistive element measures flow for accurate sensing of the flow over a range of fluid flow into the tube. A labeled fluid sensing device, includes a fluid flow sensing tube and a label. The label has a first panel secured to a surface of the tube and a second optically sensible panel removably connected to the first panel.

Classifications:

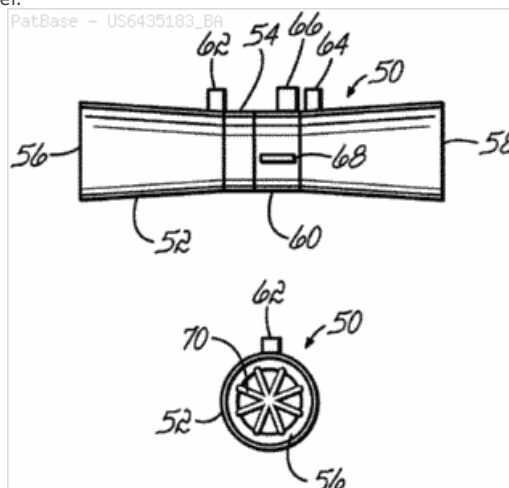
International (IPC 8-9): A61M16/00 G01F1/44 (Advanced/Invention);
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Assignee(s): (std): BRENTWOOD MEDICAL TECHNOLOGY C

Assignee(s): BRENTWOOD MEDICAL TECHNOLOGY CORP ; DELBERT AND CAROL FREEMAN FAMILY LTD ; DELBERT AND CAROL FREEMAN FAMILY PARTNERSHIP LTD ; MIDMARK CORP ; BRENTWOOD MEDICAL PRODUCTS INC

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