Search history

Search 1: stac=((apnea or apnoea or breath* or reapiratory disease*) and (device* or apparatus*) and method) (Results 14951)

Search 2: stac=((apnea or apnoea or breath* or respiratory disease*) and (device* or apparatus*) and method) (Results 15264)

Search 3: 2 and (EMG or EMGdi or electromyograph*) (Results 646)

Search 4: 3 and (heart rate or FC or HR or ECG or EKG or electrocardio*) (Results 534)

Search 5: 4 a nd (SPO2 or oxygen saturat*) (Results 18638)

Search 6: 4 and (SPO2 or oxygen saturat*) (Results 276)

Search 7: 6 and (detect* or diagnos*) (Results 273)

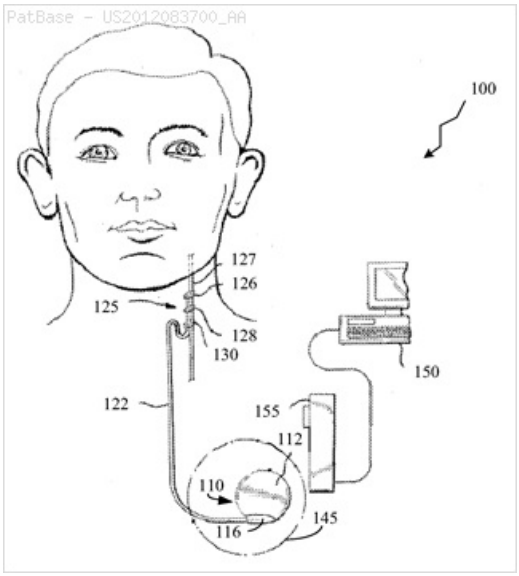
Search 8: 7 and PD < 20160603 (Results 227)

Search 9: 8 and stac=(EMG or EMGdi or electromyograph*) (Results 69)

1) Family number: 50904167 (US2012083700A)

Title: DETECTING, QUANTIFYING, AND/OR CLASSIFYING SEIZURES USING MULTIMODAL DATA

Abstract: Methods, systems, and apparatus for detecting an epileptic event, for example, a seizure in a patient using a medical device. The determination is performed by providing an autonomic signal indicative of the patient's autonomic activity; providing a neurologic signal indicative of the patient's neurological activity; and detecting an epileptic event based upon the autonomic signal and the neurologic signal.



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Probable Assignee: FLINT HILLS SCIENTIFIC LLC

Assignee(s): (std): FLINT HILLS SCIENT L L C ; FLINT HILLS SCIENT LLC ; FLUNT HILLS SCIENT LLC ; OSORIO IVAN

Assignee(s): FLUNT HILLS SCIENTIFIC LLC ; FINISAR CORP ; FLINT HILLS SCIENTIFIC L L C ; FLINT HILLS SCIENTIFIC LLC

Inventor(s): (std): OSORIO IVAN ; IVAN OSORIO

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; WILLIAMS MORGAN AND AMERSON; WILLIAMS MORGAN PC; CF3; STEPHEN; SCOTT TIMOTHY L; SCOTT TIMOTHY L 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 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

2) Family number: 31843911 (US2005085734A)

Title: HEART FAILURE PATIENT TREATMENT AND MANAGEMENT DEVICE

Abstract: A device and method to detect and manage heart failure patient symptoms is provided. Respiration and/or cardiac parameters may be sensed or observed to determine the status of a patient's condition. These symptoms may be classified for appropriate patient disease management. A patient's activity level may be monitored in conjunction with respiration and/or cardiac parameters to provide additional patient status information. These symptoms may be classified for appropriate patient disease management. Pulmonary edema is one condition that may be determined to exist when a respiration parameter is out of range for a given sensed activity level. If edema is determined to be present, the device may be configured to respond to treat the edema.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0488 A61B5/08 A61B5/087 A61F17/00 A61H31/00 A61M16/00 A61N1/00 A61N1/05 A61N1/08 A61N1/10 A61N1/18 A61N1/36 A61N1/365 A61N1/378 A61N1/39 (Advanced/Invention);
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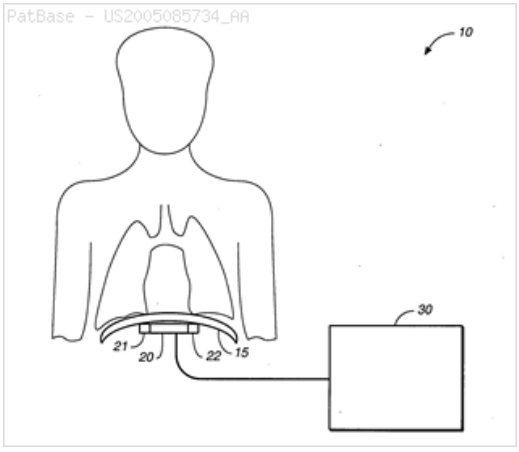

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Probable Assignee: RMX LLC

Assignee(s): (std): EASTWOOD PETER ; GOODMAN AMY ; GOODMAN AMY M ; GOODMAN AMY MICHELLE ; HILLMAN DAVID ; INSPIRATION MEDICAL INC ; LEE CHANG ; LIGON DAVID ; MO ANTHONY ; MELTZER MARK ; HOFFMANN DREW ; HOFFMAN DREW ; LEE CHANG YEUL ; LEE CHANG Y ; TEHRANI AMIR J ; PROVINCE ROSE ; SCHWARTZ ALAN ; RMX LLC ; SOWB YASSER A ; SPIRIDIGLIOZZI JOHN

Inventor(s): (std): EASTWOOD PETER ; GOODMAN AMY M ; HILLMAN DAVID ; HOFFMAN DREW ; LEE CHANG ; LIGON DAVID ; MELTZER MARK ; MO ANTHONY ; PROVINCE ROSE ; SCHWARTZ ALAN ; TLEE CHANG ; GOODMAN AMY MICHELLE ; TEHRANI AMIR J ; SPIRIDIGLIOZZI JOHN ; SOWB YASSER A ; LEE CHANG YEUL ; LEE CHANG Y ; HOFFMANN DREW ; GOODMAN AMY

Inventor(s): TEHRANI AMIR

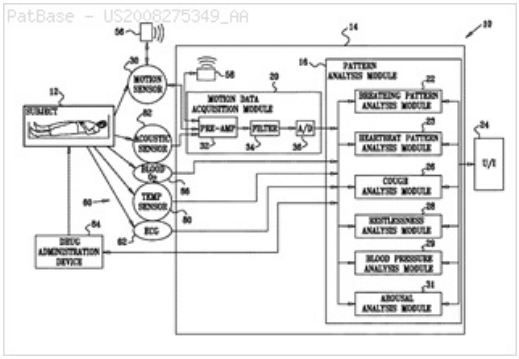
Agent(s): PETERS VERNY JONES AND SCHMITT LLP; SUSAN M SCHMITT PETERS VERNY JONES SCHMITT AND ASTON LLP; RMX LLC; LEVINE BAGADE HAN LLP

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 YU ZA ZM ZW

3) Family number: 42460189 (US2008275349A)

Title: MONITORING, PREDICTING AND TREATING CLINICAL EPISODES

Abstract: Apparatus (10) is provided that includes at least one sensor (30), configured to sense a physiological parameter of a subject (12) and to sense large body movement of the subject (12), an output unit (24), and a control unit (14). The control unit (14) is configured to monitor a condition of the subject (12) by analyzing the physiological parameter and the sensed large body movement, and to drive the output unit (24) to generate an alert upon detecting a deterioration of the monitored condition. Other embodiments are also described.



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Probable Assignee: EARLYSENSE LTD

Assignee(s): (std): EARLYSENSE LTD ; KARASIK ROMAN ; GROSS YOSEF ; LANGE DANIEL H ; MEGER GUY ; HALPERIN AVNER ; KLAP TAL ; HERBST EFRAT ; AVERBOUKH ARKADI ; BEN ARI JOSEF H ; DAIKIN IND LTD ; TODROS KOBY ; TSOREF LIAT ; ZIEHERMAN YEHUDA ; SHINAR ZVI

Assignee(s): DAIKIN INDUSTRIES LTD ; KREOS CAPITAL V EXPERT FUND LP

Inventor(s): (std): AVERBOUKH ARKADI ; BEN ARI JOSEF H ; GROSS YOSEF ; DAVIDOVICH MAAYAN ; GOLDMAN TZVI D ; EFRAT HERBST ; KARASIK ROMAN ; HALPERIN AVNER ; ISHIKAWA TAKUJI ; KAPON SHLOMI ; HOFFERT SMADAR ; HERBST EFRAT ; GUY MEGER ; GROSS YOSSI ; TODROS KOBY ; TSOREF LIAT ; LANGE DANIEL H ; MEGER GUY ; ZIEHERMAN YEHUDA ; TSUDA NOBUHIKO ; YAMAMOTO SADAHIRO ; KLAP TAL ; SHINAR ZVI ; MARCO ROTEM ; LEVKOVICH SHIRAZ ; SHINAR ZVIKA ; ROMAN KARASIK ; TAL KLAP ; ZVI SHINAR

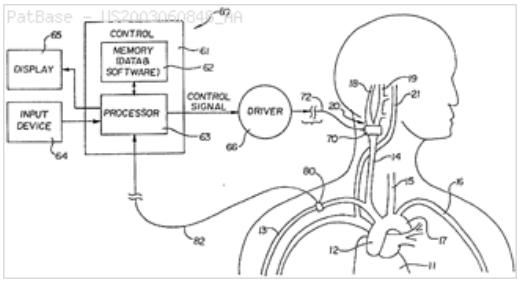
Agent(s): PIPERS; LECOMTE DIDIER; BRANN AB; FLEIT GIBBONS GUTMAN BONGINI AND BIANCO PL; ROACH BROWN MCCARTHY AND GRUBER PC; KEVIN D; DR EYAL BRESSLER LTD; WEBB AND CO ET AL; BURSTEIN TAL ET AL

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

4) Family number: 29767718 (US2003060848A)

Title: Mapping methods for cardiovascular reflex control devices

Abstract: Devices, systems and methods by which the blood pressure, nervous system activity, and neurohormonal activity may be selectively and controllably reduced by activating baroreceptors. A baroreceptor activation device is positioned near a baroreceptor, preferably in the carotid sinus. A mapping method permits the baroreceptor activation device to be precisely located to maximize therapeutic efficacy.



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International (IPC 8-9): A61B5/00 A61B5/02 A61B5/0215 A61B5/04 A61F2/82 A61M5/00 A61N1/00 A61N1/04 A61N1/05 A61N1/08 A61N1/18 A61N1/32 A61N1/36 A61N1/362 A61N1/365 A61N1/37 A61N1/372 A61N1/375 H03C3/09 H04J1/02 (Advanced/Invention);
A61F2/84 A61N1/32 A61N1/36 A61N1/365 A61N1/372 (Advanced/Non-invention);
A61B5/00 A61F2/82 A61M5/00 A61N1/00 A61N1/05 A61N1/08 A61N1/36 A61N1/372 H03C3/00 (Core/Invention);
A61N1/36 A61N1/372 (Core/Non-invention);
A61B A61N (Subclass/Invention)
International (IPC 1-7): A61B A61M29/00 A61N1/00 A61N1/05 A61N1/08 A61N1/18 A61N1/32 A61N1/36 H03C3/09
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US: 1/1 332/128 332/128S 600/301 600/301P 600/372 600/372P 600/377 600/377S 600/485 600/486 600/486S 600/509 600/509S 604/116 604/116S 604/20 604/20P 607/116 607/116P 607/116S 607/117 607/117P 607/118 607/118P 607/118S 607/17 607/17P 607/18 607/18P 607/2 607/23 607/23P 607/2P 607/3 607/36 607/36P 607/3P 607/4 607/42 607/42P 607/44 607/44P 607/44S 607/4P 607/59 607/59P 607/60 607/60S 607/62 607/62S 607/70 607/72 607/72S 607/9 607/9P

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Probable Assignee: CVRX INC

Assignee(s): (std): IRWIN ERIC D ; KEITH PETER ; KEITH PETER T ; KIEVAL ROBERT S ; PERRSON BRUCE J ; SERDAR DAVID J ; ROSSING MARTIN A ; PERSSON BRUCE J ; PERSSON BRUCE ; BOLEA STEPHEN L ; BURNS MATTHEW M ; COLE MARY L ; CVRX INC

Assignee(s): CVRX INC MINNEAPOLIS

Inventor(s): (std): BOLEA STEPHEN L ; ROSSING MARTIN A ; STEPHEN L BOLEA ; SERDAR DAVID J ; SERDAR DAVID ; ROSSING MARTIN ; ROBERT S KIEVAL ; PETER T KEITH ; PERSSON BRUCE ; PERRSON BRUCE J ; MARTIN A ROSSING ; KIEVAL ROBERT S ; KIEVAL ROBERT ; KEITH PETER T ; KEITH PETER ; IRWIN ERIC D ; IRWIN ERIC ; HEKTNER THOMAS R ; HEKTNER THOMAS ; HANSEN GINA L ; HANSEN GINA ; ERIC D IRWIN ; DAVID J SERDAR ; CROSSING MARTIN ; COLE MARY L ; BURNS MATTHEW M ; BURNS MATTHEW ; BRUCE J PERSSON ; KIVAL ROBERT S ; PERSSON BRUCE J

Inventor(s): PERSSON BRUCE J ALBERTVILLE ; PERSSON BRUCE J MINNEAPOLIS ; BOLEA STEPHEN ; BRUCE J PERRSON ; GINA L HANSEN ; MATTHEW M BURNS ; ROSSING MARTIN A COON RAPIDS ; SERDAR DAVID J MINNEAPOLIS ; SERDAR DAVID J SHOREWOOD ; KEITH PETER T MINNEAPOLIS ; IRWIN ERIC D MINNEAPOLIS ; HEKTNER THOMAS R MINNEAPOLIS ; HANSEN GINA L MINNEAPOLIS ; BURNS MATTHEW M MINNEAPOLIS ; THOMAS R HEKTNER ; BOLEA STEPHEN L WATERTOWN ; BURNS MATTHEW M ORONO ; COLE MARY ; HANSEN GINA L MAPLE GROVE ; HEKTNER THOMAS R MEDINA ; KEITH PETER T ST PAUL ; KIEVAL ROBERT MINNEAPOLIS ; KIEVAL ROBERT S MEDINA

Agent(s): SCHWABE SANDMAIR MARX; SCHWABE SANDMAIR MARX PATENTANWAELTE RECHTSANWALT PARTNERSCHAFT MBB; KAZI ILYA ET AL; KAZI ILYA; CLARK JANE ANNE; TOWNSEND AND TOWNSEND AND CREW LLP; PATTERSON THUENTE SKAAR AND CHRISTENSEN PA; PATTERSON THUENTE CHRISTENSEN PEDERSEN PA; PATTERSON THUENTE PEDERSEN PA; PATTERSON THUENTE PEDERSON PA

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 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 YU ZA ZM ZW

5) Family number: 57991762 (US2015335288A)

Title: MODULAR PHYSIOLOGIC MONITORING SYSTEMS, KITS, AND METHODS

Abstract: Systems, devices, methods, and kits for monitoring one or more physiologic and/or physical signals from a subject are disclosed. A system including patches and corresponding modules for wirelessly monitoring physiologic and/or physical signals is disclosed. A service system for managing the collection of physiologic data from a customer is disclosed. An isolating patch for providing a barrier between a handheld monitoring device with a plurality of contact pads and a subject is disclosed.

Classifications:
International (IPC 8-9)**:** A61B5/00 A61B5/01 A61B5/02 A61B5/022 A61B5/04 A61B5/0408 A61B5/0478 A61B5/0488 A61B5/0492 A61B5/103 A61B5/145 (Advanced/Invention)
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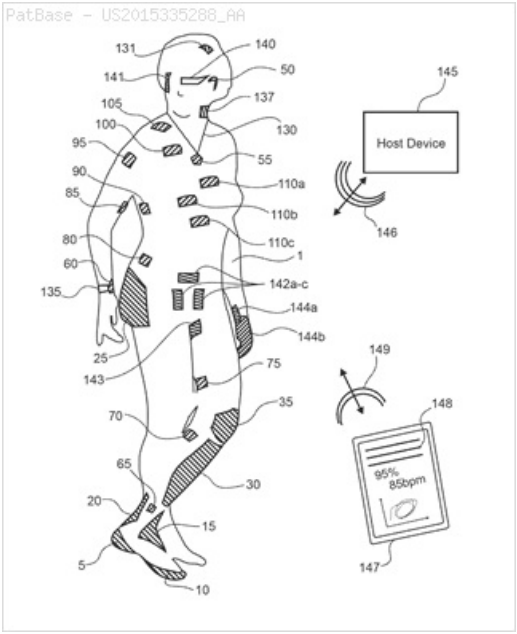

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JP2016523139 T2	20160808	JP20160518040T	20140606
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SG11201509901V A1	20160128	SG20151109901	20140606
SG11201700798Q A1	20170227	SG20171100798	20150731
US2015335288 AA	20151126	US20150815251	20150731
US2015351690 AA	20151210	US20140764830	20140606
WO14197822 A2	20141211	WO2014US41339	20140606
WO14197822 A3	20150416	WO2014US41339	20140606
WO16019250 A1	20160204	WO2015US43123	20150731

Priority:

US20130832131P 20130606
WO2014US41339 20140606
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AU20180250348 20181015
AU20140274726 20140606
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US20150815251 20150731
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WO2015US43123 20150731

Probable Assignee: LIFELENS TECHNOLOGIES LLC

Assignee(s) (std)**:** TRICORD HOLDINGS LLC ; TRICORD HOLDINGS L L C

Assignee(s): TOTH LANDY ; TRICORD HOLDINGS II LLC ; LIFELENS TECHNOLOGIES LLC ; MARTIN ROY ; PULLING CHRIS ; SCHWARTZ ROBERT

Inventor(s) (std)**:** MARTIN ROY ; PULLING CHRIS ; SCHWARTZ ROBERT ; TOTH LANDY

Agent(s): SPRUSON AND FERGUSON; KIRBY EADES GALE BAKER; WILLIAMS DAVID JOHN; USUI SHINICHI; OKABE YUZURU; TAKANASHI NORIMICHI; SPRUSON AND FERGUSON ASIA PTE LTD; LEWIS WILLIAM E

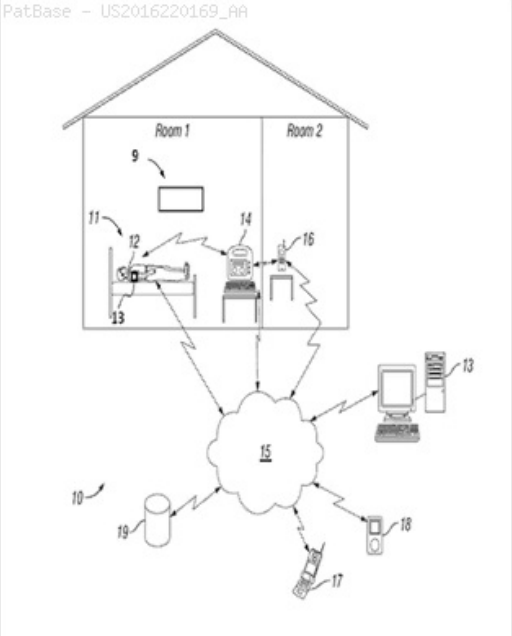
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW 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: 58695423 (US2016220169A)

Title: METHOD AND APPARATUS FOR DETECTING SEIZURES INCLUDING AUDIO CHARACTERIZATION

Abstract: A method of monitoring a patient for seizures with motor manifestations may comprise monitoring a patient using one or more EMG and acoustic sensors and determining whether the collected data is indicative of seizure activity.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/02 A61B5/0488 A61B5/0492 A61B7/02 G10L25/66 G16H10/60 G16H80/00 H04W52/02 H04W52/04 H04W72/08 (Advanced/Invention); H04L1/00 (Advanced/Non-invention)
International (IPC 1-7): A61B5/0488
CPC: A61B2562/0204 A61B7/02 A61B5/0004 A61B5/04015 A61B5/0402 A61B5/6804 A61B2562/0219 A61B5/1101 A61B5/6844 A61B5/746 A61B5/0002 A61B5/7425 A61B5/748 A61B5/0022 A61B5/7275 H04L1/0001 H04Q9/00 H04Q2209/40 H04W52/0254 A61B5/14542 A61B5/7264 A61B5/7282 A61B2560/0242 G06F19/3418 Y02D70/142 Y02D70/144 Y02D70/164 Y02D70/00 G16H50/20 A61B2560/0209 H04W52/0245 H04W52/04 G06F19/00 H04W4/24 A61B5/0492 G16H80/00 A61B2505/01 G16H10/60 A61B5/0488 A61B5/4094 A61B2505/07
US: 600/301



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JP2017526469 T2	20170914	JP20170513520T	20150912
JP6431072 B2	20181128	JP20160540933T	20140909
MX2016003111 A1	20160616	MX20160003111	20140909
MX2016007644 A1	20161004	MX20160007644	20141212
MX2017003139 A1	20170614	MX20170003139	20150912
US2016220169 AA	20160804	US20140917880	20140909
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Priority:

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WO2014US68246 20141202
US20140103562 20141212
AU20170245430 20171013

Probable Assignee: BRAIN SENTINEL INC

Assignee(s): (std): BRAIN SENTINEL INC ; LGCH INC

Assignee(s): GIROUARD MICHAEL R

Inventor(s): (std): GIROUARD MICHAEL R ; MICHAEL R GIROUARD

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; OSLER HOSKIN AND HARCOURT LLP; PRICE NIGEL JOHN KING; J A KEMP; ONDA MAKOTO; ONDA HIRONORI; GOSTKOWSKI MICHAEL ET AL

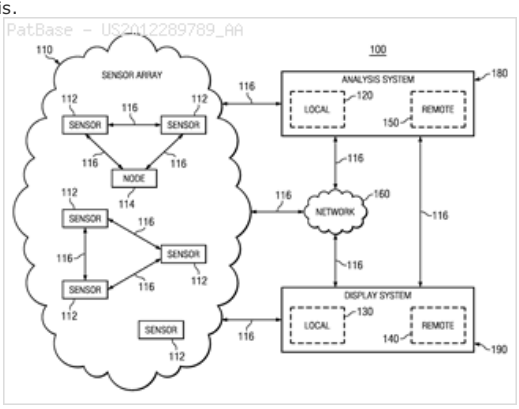
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW 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

7) Family number: 52365053 (US2012289789A)

Title: CONTINUOUS MONITORING OF STRESS USING ENVIRONMENTAL DATA

Abstract: In particular embodiments, a method includes accessing data streams from an environmental sensor, and one or more of a mood sensor, a heart-rate monitor, a blood-pressure monitor, a pulse oximeter, or an accelerometer monitoring a person, analyzing data sets collected from the person when the person is exposed to various environmental states, and determining a current stress index of the person based on the analysis.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/16 (Advanced/Invention)
CPC: A61B5/7232 A61B5/0022 A61B5/021 A61B5/02416 A61B5/02438 A61B2560/0242 A61B2562/0219 A61B5/02055 A61B5/14532 A61B5/4848 G06F19/3418 A61B5/165 G06F19/00
US: 600/300 600/301



Family:

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Priority:
US20110107211 20110513 US20110107432 20110513 US20110107605 20110513

Probable Assignee: FUJITSU LTD

Assignee(s): (std): ADLER B THOMAS ; BAHADUR MADAN ; BALAKRISHNAN RAJALAKSHMI ; BRAUN ALBERT C ; FUJITSU LTD ; MARVIT DAVID LOREN ; GILMAN ALEXANDER ; REINHARDT ALBERT H M ; JAIN JAWAHAR ; STERGIOU STERGIOS

Assignee(s): FUJITSU LIMITED

Inventor(s): (std): ADLER B THOMAS ; BAHADUR MADAM ; BAHADUR MADAN ; BALAKRISHNAN RAJALAKSHMI ; BRAUN ALBERT C ; GILMAN ALEXANDER ; JAIN JAWAHAR ; MARVIT DAVID LOREN ; REINHARDT ALBERT H M ; STERGIOU STERGIOS

Agent(s): ITOH TADAHIKO; ITOH TADASHIGE; BAKER BOTTS LLP

8) Family number: 30497347 (US2005217674A)

Title: METHOD AND APPARATUS FOR MAINTAINING AND MONITORING SLEEP QUALITY DURING THERAPEUTIC TREATMENTS

Abstract: The present invention monitors and interprets physiological signals and spontaneous breathing events to detect the onset of arousal. Once the onset of arousal is determined, the present invention determines adjustments that are needed in the operation of a therapeutic device to avoid or minimize arousals. In one embodiment, the present invention includes one or more sensors which detect a patient's physiological parameters, a controller which monitors and determines the onset of arousal based on the physiological variables received from the sensor, and a therapeutic treatment device which is controlled by the controller. The sensor can be a combination of one or more devices which are able to monitor a physiological parameter that is used by the present invention to determine the onset of arousal or the onset of a sleep disorder. The sensors can be integrated into one unit or may operate independent of the others.

Classifications:
International (IPC 8-9): A61B A61B19/00 A61B5/00 A61B5/02 A61B5/0205 A61B5/04 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/08 A61B5/087 A61B5/103 A61B5/11 A61H31/02 A61M11/00 A61M16/00 A61M16/01 A61M16/10 A61M21/00 A61M21/02 A61M5/14 A61N1/36 A61N1/365 A62B7/00 (Advanced/Invention);
A61B5/00 A61B5/0205 A61B5/0476 A61B5/087 A61M21/02 (Advanced/Non-invention);
A61M16/00 (Core/Invention);
A61B (Subclass/Invention)
International (IPC 1-7): A61B A61B0/00 A61B5/00 A61B5/0402 A61B5/083 A61B5/097 A61M16/00 A61M5/14 A61N1/365 A62B7/00 G06F17/60
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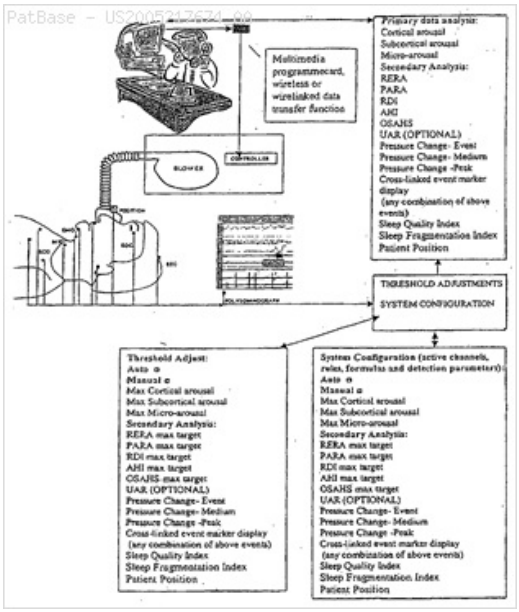

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CA2711783 AA	20040422	CA20032711783	20031009
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IN208175 B	20070810	IN2005MN00253	20050415
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JP2006516100 T2	20060622	JP20040543671T	20031009
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KR101177207 B1	20120824	KR20107018395	20031009
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KR101318718 B1	20131016	KR20107018394	20031009
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Priority:

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Probable Assignee: COMPUMEDICS LTD

Assignee(s): (std): BURTON DAVID ; COMPUMEDICS LTD ; COMPUMEDICS LTD EMPRESA ESTRAN ; ZILBERG EUGENE ; KOMP JUMEDIKS LIMITID ; COMPUMEDICS MEDICAL INNOVATION PTY LTD

Assignee(s): DAVID BURTON ; EUGENE ZILBERG ; COMPUMEDICS EMPRESA ESTRANGEIRA LTD ; COMPUMEDICS LIMITED ; COMPUMEDICS LIMITED EMPRESA ESTRANGEIRA

Inventor(s): (std): EUGEN BURTON DAVID ZILBERG ; EUGENE ZILBERG ; LAU ANDREW ; LAU DAVID ; ZILBERG EUGEN ; ZILBERG EUGENE ; ZILBERG JUDZHIN ; LO EHNDRU ; BERTON DEJVID ; EUGEN ZILBERG ; DAVID BURTON ; ANDREW LAU ; BURTON DAVID

Inventor(s): BURTON DAVID ZILBERG EUGEN

Agent(s): COMPUMEDICS LTD; GOUDREAU GAGE DUBUC; MACPHERSON LESLIE AND TYERMAN LLP; MLT AIKINS LLP; HANDSOME IP LTD; CLT PATENT AND TRADEMARK HK LTD; DR MARK FRIEDMAN LTD; SUMIYOSHI KATSUHIKO; CHIBA AKIO; MASUI CHUJI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; ONO SHINJIRO; FULBRIGHT AND JAWORSKI LLP; PROCOPIO CORY HARGREAVES AND SAVITCH LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

9) Family number: 30492734 (US2006235315A)

Title: METHOD, APPARATUS AND SYSTEM FOR CHARACTERIZING SLEEP

Abstract: A method of determining sleep stages from signals of electrical activity recorded of a chest of a sleeping subject, the signals being measured over a plurality of epochs. The method comprising: (a) extracting a series of cardiac R-R intervals from the signals and obtaining a time-frequency decomposition from the series of cardiac R-R intervals; (b) using the time-frequency decomposition to determine at least one Slow-Wave-Sleep (SWS) period and at least one Non-SWS (NSWS) period; (c) from the at least one NSWS period, determining at least one sleep-onset (SO) period and a plurality of non-sleep periods; (d) extracting a plurality of electromyogram (EMG) parameters from a portion of the signals, the portion corresponds to a NSWS period other than the at least one SO period and other than the plurality of non-sleep period; (e) using the plurality of EMG parameters to determine at least one REM period thereby also to obtain also at least one light-sleep (LS) period defined as a NSWS period other than the SO periods, other than the non-sleep periods and other than the REM periods; thereby determining the sleep stages of the sleeping subject.

Classifications:
International (IPC 8-9): A61B5/04 A61B5/0456 A61B5/0488 (Advanced/Invention); A61B5/0476 A61B5/0496 A61B5/11 (Advanced/Non-invention)
International (IPC 1-7): A61B5/04 A61B5/0456 A61B5/0488
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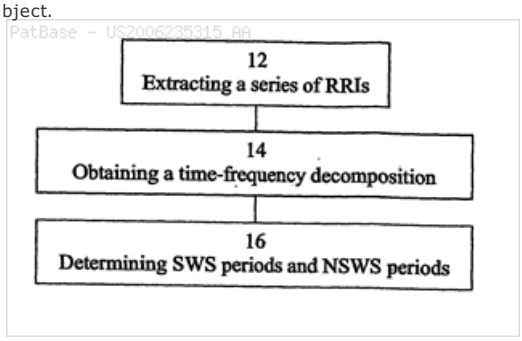

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Priority:

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Probable Assignee: RAMOT AT TEL AVIV UNIV LTD

Assignee(s): (std): BAHARAV ARMANDA L ; BAHARAV ARMANDA LIA ; RAMOT AT TEL AVIV INIVERSITY L ; RAMOT AT TEL AVIV UNIV L ; SHINAR ZVIKA ; UNIV RAMOT ; AKSELROD SOLANGE

Assignee(s): ARMANDA LIA BAHARAV ; RAMOT AT TEL AVIV UNIV LTD ; RAMOT AT TEL AVIV UNIVERSITY LTD ; ZVIKA SHINAR ; SOLANGE AKSELROD ; RAMOT AT TEL AVIV INIVERSITY LTD ; RAMOT AT TEL AVIV UNIV

Inventor(s): (std): BAHARAV ARMANDA LIA ; SHINAR ZVIKA ; AKSELROD SOLANGE ; BAHARAV ARMANDA L ; BAHARAV ARMANDA

Inventor(s): ARMANDA LIA BAHARAV ; SOLANGE AKSELROD ; ZVIKA SHINAR

Agent(s): OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; MACHTALERE GEORGES; FICHTER ROBERT ARNO; GE EHRLICH 1995 LTD; MARTIN D MOYNIHAN, ANTHONY CASTORINA; MARTIN D MOYNIHAN ANTHONY CASTORINA

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR 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 NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

10) Family number: 31169389 (US2005119586A)

Title: SYSTEMS AND METHODS FOR RESPIRATORY EVENT DETECTION

Abstract: The present invention is directed to improved systems and methods for processing respiratory signals derived generally from respiratory plethysmography, and especially from respiratory inductive plethysmographic sensors mounted on a garment for ambulatory recording. The systems and methods provide improved signal filtering for artifact rejection, improved calibration of sensor data to produce outputs indicative of lung volumes. Further, this invention provides improved systems and methods directed to processing lung volume signals, however measured or derived, to provide improved determination of respiratory parameters and improved recognition of selected respiratory events.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/04 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/05 A61B5/08 A61B5/087 A61B5/091 A61B5/11 A61B5/113 A61B5/16 A61B7/00 G01B15/02 G06F19/00 (Advanced/Invention);
A61B7/00 (Advanced/Non-invention);
A61B5/00 A61B5/04 A61B5/05 A61B5/08 A61B5/11 A61B5/16 A61B7/00 G01B15/02 G06F19/00 (Core/Invention);
A61B7/00 (Core/Non-invention);
A61K (Subclass/Invention)
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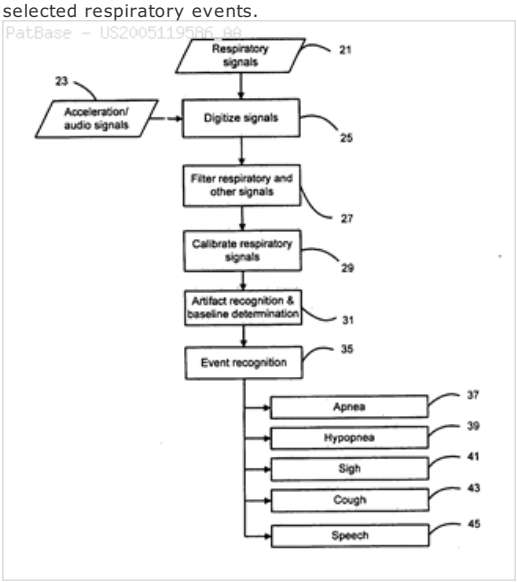

Family:

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Priority:

US20030461738P 20030410
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Probable Assignee: ADIDAS AG

Assignee(s): (std): DERCHAK P A ; DERCHAK P ALEXANDER ; KEENAN DESMOND B ; GILROY KEITH ; GUMMELS EMERANCE M ; INMAN DANA MICHAEL ; KENNEDY PAUL ; MITCHNICK MARK ; FRANK WILHELM ; KEENAN BARRY ; JONATHAN LANCE M ; INMAN DANA M ; MYERS LANCE ; VIVOMETRICS INC ; SACKNER MARVIN A ; WILHELM FRANK ; MYERS LANCE J ; MYERS LANCE JONATHAN ; SACKNER MARVIN ; ADIDAS AG ; BEHAR ANDREW ; COYLE MICHAEL

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Inventor(s): JONATHAN LANCE MYERS ; JONATHAN LANCE ; DERCHAK P ; MITCHNICK MARK E HAMPTON ; KENNEDY PAUL OJAI ; KEENAN DESMOND B SANTA BARBARA ; KEENAN DESMOND ; INMAN DANA MICHAEL HOUSTON ; INMAN DANA ; GUMMELS EMERANCE M MIRAMAR ; GILROY KEITH UPLAND ; DERCHAK P ALEXANDER YARDLEY ; COYLE MICHAEL WEST WINDSOR ; BEHAR ANDREW OJAI ; SACKNER MARVIN A MIAMI BEACH ; GUMMELS EMERANCE

Agent(s): LESICAR PERRIN; LESICAR MURRAY TRENTO; LESICAR MAYNARD ANDREWS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; BARDEHLE PAGENBERG PARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE; Wegner Hans; WEGNER HANS; WEBB AND CO; KATAYAMA EIJI; OHMORI NORIO; KOBAYASHI HIROSHI; FURUHASHI NOBUSHIGE; JONES DAY; WINSTON AND STRAWN LLP; WINSTON AND STRAWN LLP, PATENT DEPARTMENT; WINSTON AND STRAWN LLP PATENT DEPARTMENT; FRANCIS LAW GROUP; STERNE KESSLER GOLDSTEIN AND FOX PLLC; FANUCCI ALLAN 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 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

11) Family number: 61321689 (US2017095624A)

Title: DRUG DOSE CARTRIDGE FOR AN INHALER DEVICE

Abstract: Devices and methods are described for preparing, managing, and/or administering metered doses of substances for vaporized administration. In some embodiments, dose cartridges comprising at least one botanical substance include a heating element integrated into the cartridge in close contact with the botanical substance. In some embodiments, cartridge-mounted doses are stored in a magazine, optionally in carousel form, before use. Transport of a cartridge from a magazine to an electrically operated vaporizing chamber which activates the heating element is provided by a mechanical pickup means.

Classifications:

International (IPC 8-9): A24F47/00 A61J1/03 A61K A61K31/05 A61K31/09 A61K31/122 A61K31/137 A61K31/343 A61K31/352 A61K31/36 A61K31/366 A61K31/465 A61K31/473 A61K31/48 A61K31/55 A61K36/185 A61K36/81 A61K45/00 A61K6/00 A61K9/00 A61K9/72 A61M A61M11/00 A61M11/04 A61M13/00 A61M15/00 A61M15/06 A61M16/00 A61M16/10 A61M16/14 A61M16/20 A61N65/00 A61P1/00 A61P1/04 A61P1/08 A61P1/14 A61P11/00 A61P11/06 A61P13/10 A61P15/00 A61P17/02 A61P17/04 A61P19/02 A61P21/00 A61P25/00 A61P25/04 A61P25/08 A61P25/14 A61P25/16 A61P25/18 A61P25/20 A61P25/22 A61P25/24 A61P25/30 A61P25/32 A61P27/06 A61P29/00 A61P31/04 A61P31/14 A61P31/18 A61P35/00 A61P35/02 A61P9/10 A61P9/12 G06F19/00
H05B1/02 (Advanced/Invention);
A24F47/00 A61J1/03 A61M11/02 A61M11/04 (Advanced/Non-invention);
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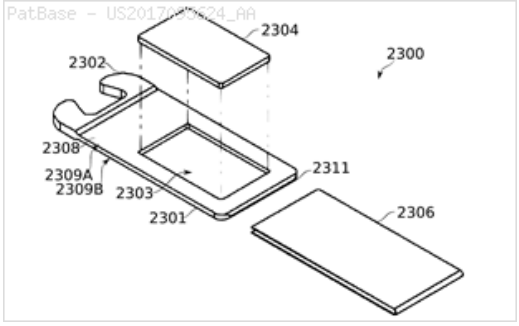

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US: 128/203.14 128/203.27

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: SYQE MEDICAL LTD

Assignee(s): (std): SYQE MEDICAL LTD ; SHLOMO ALMOG ; SETH KINDLER ; PERRY DAVIDSON

Assignee(s): ROEE LIFSHITZ ; AARON SCHORR ; ALMOG SHLOMO ; ASAF KROLL ; BINYAMIN SCHWARTZ ; SCHORR AARON ; KROLL ASAF ; SCHWARTZ BINYAMIN ; DAVIDSON PERRY ; KINDLER SETH ; LIFSHITZ ROEE

Inventor(s): (std): ALMOG SHLOMO ; DAVIDSON PERRY ; KINDLER SETH ; KROLL ASAF ; LIFSHITZ ROEE ; SCHORR AARON ; SCHWARTZ BENNY ; SHLOMO ALMOG ; SETH KINDLER ; SCHWARTZ BINYAMIN ; ROEE LIFSHITZ ; PERRY DAVIDSON ; BINYAMIN SCHWARTZ ; ASAF KROLL ; AARON SCHORR

Inventor(s): AARON SCRORR

Agent(s): IP SENTINELS PATENT AND TRADEMARK ATTORNEYS; INTEGRAL IP; VOGEL ANDREAS; GE EHRLICH 1995 LTD; EHRLICH GAL 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

12) Family number: 54554865 (US2015005608A)

Title: ELECTRODE UNITS FOR SENSING PHYSIOLOGICAL ELECTRICAL ACTIVITY

Abstract: Systems and apparatus for monitoring physiological electrical activity of an individual include a first electrode unit for receiving a first signal indicative of electrical activity at a first location on a body of the individual and a second electrode unit for receiving a second signal indicative of electrical activity at a second location on the body of the individual. Each of the first and second electrode units may be operated in a field-sensing mode wherein the electrode unit is placed on or in proximity to the individual's skin. The first and second electrode units comprise a capacitive sensor element, and the capacitive sensor element of each of the electrode units comprising an electrodynamic sensor which is sensitive to electromagnetic waves; and an antenna comprising an electrically conductive radiating element for receiving electromagnetic waves. The field-sensing mode can be either non-contact field-sensing mode wherein the electrode unit is placed on the individual's clothing or a contact field-sensing mode wherein the electrode unit is placed directly on the individual's skin.

Classifications:
International (IPC 8-9): A61B A61B5/00 A61B5/02 A61B5/0205 A61B5/04 A61B5/0402 A61B5/0404 A61B5/0408 A61B5/0416 A61B5/0428 A61B5/044 A61B5/0452 A61B5/0478 A61B5/0492 A61B5/0496 A61B5/08 A61B5/16 A61B5/18 (Advanced/Invention); A61B (Subclass/Invention)
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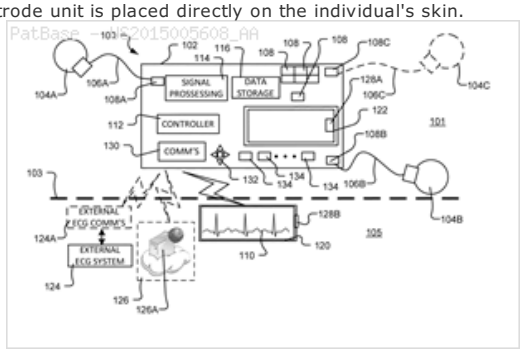

Family:

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EP2811899 A1	20141217	EP20130746575	20130208
EP2811899 A4	20151007	EP20130746575	20130208
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JP2015513413 T2	20150514	JP20140556752T	20130208
JP6267654 B2	20180124	JP20140556752T	20130208
US2015005608 AA	20150101	US20140459142	20140813
US2015005609 AA	20150101	US20130377255	20130208
WO13120014 A1	20130815	WO2013US25432	20130208

Priority:

US20120596543P 20120208 US20130377255 20130208 WO2013US25432 20130208
US20140377255 20140807 US20140459142 20140813

Probable Assignee: EASYG LLC

Assignee(s): (std): EASYG LLC

Assignee(s): EASYG LLC32076 ROBINHOOD DRIVEBEVERLY HILLSMI48025US ; EVANS THOMAS CRANNELL ; EVANS TOM ; GAVRILOVICH EFRAIM3 - 1945 WEST 15TH AVENUEVANCOUVERB1V6J 2L2CA ; ISBASESCU ION7308 HAWTHORNE TERRACEBURNABYB1V5E 4M4CA ; MIHAI RASVAN CATALIN3180 EAST 63RD AVENUEVANCOUVERB1V5S 2G8CA

Inventor(s): (std): EVANS THOMAS CRANNELL ; MIHAI RASVAN CATALIN ; ISBASESCU ION ; GAVRILOVICH EFRAIM ; EVANS TOM

Inventor(s): EVANS TOMUS ; THOMAS CRANNELL EVANS ; MIHAI RASVAN CATALIN3180 EAST 63RD AVENUEVANCOUVERB1V5S 2G8CA ; ISBASESCU ION7308 HAWTHORNE TERRACEBURNABYB1V5E 4M4CA ; GAVRILOVICH EFRAIM3 - 1945 WEST 15TH AVENUEVANCOUVERB1V6J 2L2CA ; EVANS THOMAS CRANNELLUS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP; PATENTANWAELTE OLBRICHT BUCHHOLD KEULERTZ; RUSSELL KEVIN L 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

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13) Family number: 48310380 (US2012277548A)

Title: ANAESTHESIA AND CONSCIOUSNESS DEPTH MONITORING SYSTEM

Abstract: Methods and systems incorporating non-linear dynamic (NLD) analysis such as entropy or other complexity analysis monitoring continuous or evoked signals from a biological subject are presented, where such a system comprises of processing steps including: a) the combination of a biological signal evoked as a result of patient stimulation presented to a biological subject and a non-linear analysis method capable of capturing temporal changes in signal order or regularity; b) any combination of processed evoked or continuous central nervous or peripheral physiological mechanisms b) a means to generate a measure indicative of a patient's level of anaesthesia and consciousness depth (A and CD), sedation or sleep/wake state. Methods and systems incorporating a NLD analysis means to improve the discrimination between different signals origins including any combination of: a) central nervous system (CNS), b) peripheral control or nervous system (PNS), c) autonomic control or nervous system (ANS), d) arousals, and e) artifacts.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/021 A61B5/024 A61B5/04 A61B5/0402 A61B5/0482 A61B5/0484 A61B5/0488 A61B5/05 A61B5/145 A61B8/08 G06F19/00 G16H50/30 (Advanced/Invention);
A61B5/0476 A61B5/0484 A61B5/0488 A61B5/0496 A61B5/08 A61B5/145 G06F19/00 (Advanced/Non-invention)
CPC: A61B5/7275 A61B5/02116 A61B5/02125 A61B5/02405 A61B5/0402 A61B5/0476 A61B5/0484 A61B5/0496 A61B5/08 A61B5/14542 A61B5/415 A61B5/4821 A61B5/4839 A61B5/7203 A61B5/7207 A61B5/7257 A61B5/4029 A61B5/4047 A61B5/4064 A61B5/4088 A61B8/08 A61B5/0205 A61B5/0488 A61B5/04025 G16H50/30 G06F19/00
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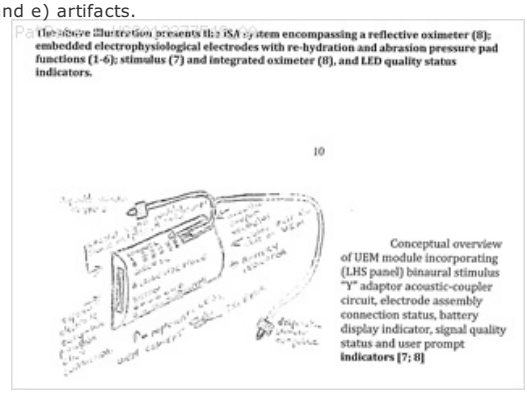

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Priority:

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Probable Assignee: BURTON DAVID

Assignee(s): (std): BURTON DAVID

Inventor(s): (std): BURTON DAVID

Agent(s): BURTON DAVID; HUBICK KERRY DR; HANDS LEWIS ROGER; KIMURA TAKAHISA

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

14) Family number: 59685651 (US2015190630A)

Title: METHOD AND APPARATUS FOR TREATING SLEEP APNEA

Abstract: An oral appliance is disclosed that provides electrical stimulation to a patient's tongue in a manner that prevents collapse of the tongue and/or soft palate during sleep. More specifically, the appliance may induce a reversible current or currents in a lateral direction across the tongue in a manner that shortens the patient's Palatoglossus muscle, which in turn pulls the patient's soft palate downward towards a base of the tongue and/or decreases a volume of the tongue.
Classifications:
International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/0488 A61B5/08 A61B5/087 A61B5/113 A61B5/145 A61B7/00 A61F5/56

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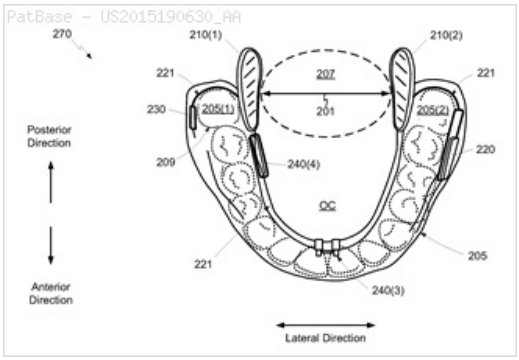

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Priority:

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Probable Assignee: INVICTA MEDICAL INC

Assignee(s): (std)**:** INVICTA MEDICAL INC

Inventor(s): (std)**:** FISHER CHRISTOPHER ; HARTER LAURENCE WYLIE ; KENT HAROLD BYRON ; KENT ROBERT DOUGLAS ; KENT STEVEN THOMAS ; PULDON KARENA YADIRA ; YOUNG RONALD W

Agent(s): BOULT WADE TENNANT; PARADICE III WILLIAM L

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 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

15) Family number: 53734732 (US2013340758A)

Title: METHODS AND APPARATUS FOR MONITORING AND TREATING RESPIRATORY INSUFFICIENCY

Abstract: An apparatus, such as a pressure support ventilator or respiratory monitor, provides operations for a patient, such a patient with heart failure, Chronic Obstructive Pulmonary Disease or other respiratory insufficiency. In some embodiments, the apparatus may detect a respiratory condition, such as a decompensation event and/or exacerbation event, from respiratory parameters. A clinical alert message may be transmitted or displayed for a physician based on the results of query presented to the patient in response to an analysis of the one or more respiratory parameters. In some embodiments, the apparatus generates a potential relapse indicator that may provide a prediction of a risk of an oncoming clinical event such as for evaluating whether to release the patient from a hospital.
Classifications:
International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/0488 A61B5/08 A61B5/103 A61B5/11 A61B5/113 A61B5/1455 A61M16/00 A61M16/10 A61M16/16 G08B21/02 (Advanced/Invention);
A61B5/024 A61B5/08 A61B5/085 A61B5/087 A61M16/10 A61M16/16 (Advanced/Non-invention)
CPC: A61M16/0057 A61B5/103 G08B21/02 A61B5/0507 A61B5/0816 A61B5/087 A61B5/097 A61B5/1115 A61B5/1118 A61B5/1126 A61B5/4809 A61B5/7246 A61M16/0066 A61M2205/3569 A61M2205/3584 A61M2205/3592 A61B5/0245 A61B5/0826 A61B5/083 A61B5/14551 A61B5/0488 A61B5/4836 A61B5/4866 A61B5/0205 A61M16/0006 A61M2016/0033 A61M2016/0018 A61B5/024 A61B5/085 A61M16/0069 A61M2016/0027 A61B5/113 A61B5/7221 A61B5/7264 A61B5/742 A61B5/746 A61B5/08 A61B5/4818 A61B5/7275 A61M16/107 A61M16/1075 A61M16/16 A61M2016/0036 A61M2016/0039 A61M2205/502 A61M2230/205 A61M16/024 A61M16/026 A61M16/0051 G06F19/00
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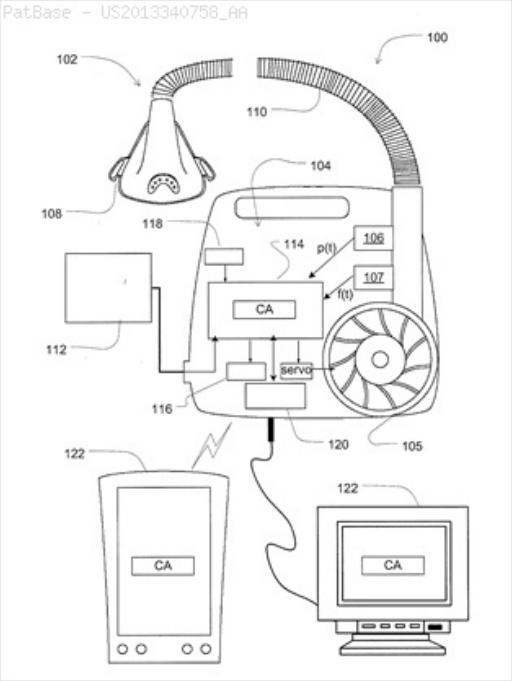

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JP2018153661 A2	20181004	JP20180092234	20180511
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US2014290658 AA	20141002	US20120356471	20121107
US2015164375 AA	20150618	US20130403398	20130530
US2017333652 AA	20171123	US20170430742	20170213
US9597468 BB	20170321	US20120356471	20121107
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WO13177621 A9	20140213	WO2013AU00564	20130530

Priority:

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JP20150514289T 20130530
US20170430742 20170213
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EP20120846933 20121107
AU20130270443 20130530
US20140356471 20140506

Probable Assignee: RESMED LTD

Assignee(s): (std)**:** REDMED LTD ; RESMED LTD ; RESMED SENSOR TECHNOLOGIES LTD ; RESMED SENSOR TECH LTD

Assignee(s): RESMED BELLA VISTA LTD ; RESMED LIMITED ; OF ESSEN UNIV

Inventor(s): (std)**:** BASSIN DAVID JOHN ; BERTHON JONES MICHAEL ; CELKA PATRICK ; COLEFAX MICHAEL WACLAW ; DE CHAZAL PHILIP ; DENNIS CLANCY JOHN ; FARRUGIA STEVEN PAUL ; FOX NIALL ; HENEGHAN CONOR ; JAVED FAIZAN ; KHUSHABA RAMI ; MALOUF GORDON JOSEPH ; O HARE EMER ; REDMOND STEPHEN JAMES ; SCHINDHELM KLAUS HENRY ; TESCHLER HELMUT ; ZAFFARONI ALBERTO ; SCHINDELM KLAUS HENRY

Agent(s): HALFORDS IP; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; VOSSIUS AND PARTNER; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP; BORG KEITH JOSEPH ET AL; DAVIDSON GEOFFREY ROBERT 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

16) Family number: 41930957 (US2010042179A)

Title: RESUSCITATION DEVICE AND METHOD FOR RESUSCITATION

Abstract: The invention relates to a resuscitation device for humans. The resuscitation device is designed to provide

resuscitating stimulation of the respiratory area of the human brain stem, preferably from a location distant from said respiratory area. The invention further relates to a method for providing a rescuscitating treatment to a human. Parameters are measured by a number of sensor means and processed by a processing means for providing a response by a number of stimulation means. The stimulation means are electrical, mechanical or chemical stimulation means.

Classifications:

International (IPC 8-9): A61B A61B5/0205 A61B5/08 A61B5/113 A61H A61H39/00 A61H39/04 A61H9/00 A61M A61M11/00 A61M16/00 A61M21/00 A61M37/00 A61N A61N1/00 A61N1/05 A61N1/08 A61N1/36 (Advanced/Invention);
A61B5/0205 A61B5/08 A61B5/11 A61H39/00 A61M16/00 A61M21/00 A61M37/00 A61N1/05 A61N1/08 A61N1/36 (Core/Invention)

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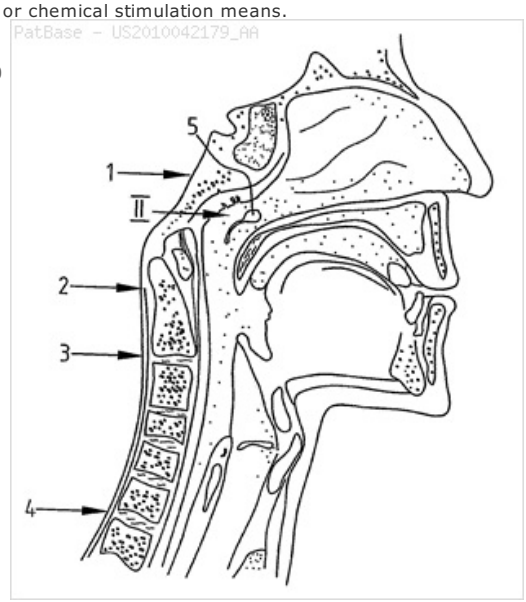

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Priority:

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Probable Assignee: NASOPHLEX BV

Assignee(s): (std): DE VOS GERRIT JOHANNIS ; NASOPHLEX B V ; NASOPHLEX B V NL ; NASOPHLEX BV ; NASOPHLEX NL BV ; TOMORI ZOLTAN

Inventor(s): (std): VOS GERRIT JOHANNIS DE ; ZOLTAN TOMORI ; TOMORI ZOLTAN ; DE VOS GERRIT JOHANNIS

Inventor(s): GERRIT JOHANNIS DE VOS

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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 ZA ZM ZW

17) Family number: 50017932 (US2013116514A)

Title: APPARATUS, SYSTEM, AND METHOD FOR SEIZURE SYMPTOM DETECTION

Abstract: An apparatus, system, and method are disclosed for detecting seizure symptoms in an individual 102. A sensor module 202 receives physiological data for an individual 102 from one or more sensors 110, 112, such as a heart activity sensor. A feature detection module 204 detects a predefined feature 500, 520, 530, 540 in the physiological data. The predefined feature 500, 520, 530, 540 is associated with a seizure or another medical condition. An alert module 206 broadcasts an alert in response to the feature detection module 204 detecting the predefined feature 500, 520, 530, 540.

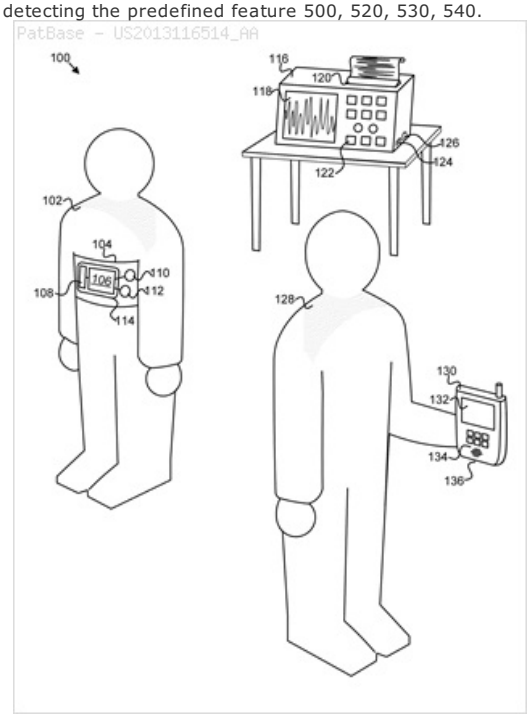
Classifications:

International (IPC 8-9): A61B5/00 A61B5/01 A61B5/0205 A61B5/0245 A61B5/04 A61B5/0402 A61B5/0432 A61B5/044 A61B5/0488 A61B5/11 A61B5/145 A61B7/00 (Advanced/Invention); A61B5/00 A61B5/024 A61B5/0245 A61B5/053 A61B5/08 A61B5/11 A61B5/113 (Advanced/Non-invention)

CPC: A61B5/02055 A61B5/0002 A61B5/0026 A61B5/01 A61B5/0205 A61B5/0245 A61B5/04012 A61B5/0402 A61B5/0432 A61B5/044 A61B5/0488 A61B5/1112 A61B5/1116 A61B5/1118 A61B5/14542 A61B5/4836 A61B5/6801 A61B5/6802 A61B5/6804 A61B5/6831 A61B5/6833 A61B5/686 A61B5/704 A61B5/746 A61B7/00 A61B5/002 A61B5/0022 A61B5/02438 A61B5/02455 A61B5/0533 A61B5/0816 A61B5/1117 A61B5/1123 A61B5/1135 A61B5/4094 A61B5/4803 A61B5/6805 A61B5/681 A61B5/6891

European: A61B5/40F6 K61B5/00B5D K61B5/00B5F K61B5/01 K61B5/0245B K61B5/024F K61B5/0488 K61B5/053B4 K61B5/08R K61B5/113B K61B5/11P2 K61B5/11T K61B5/145N K61B5/48B K61B5/68B1D1 K61B5/68B1H K61B5/68B3B K61B5/68F3

US: 1/1 600/301 600/483 600/484 600/509 600/523



Family:

Publication number	Publication date	Application number	Application date
EP2575605 A1	20130410	EP20110787045	20110127
EP2575605 A4	20150121	EP20110787045	20110127
US2013116514 AA	20130509	US20110701469	20110127
US9339195 BB	20160517	US20110701469	20110127
WO11149565 A1	20111201	WO2011US22757	20110127

Priority:

US20100349633P 20100528 US20110701469 20110127 WO2011US22757 20110127

Probable Assignee: RESEARCH TRIANGLE INST

Assignee(s): (std): KRONER BARBARA ; PITRUZZELLO ANN ; RES TRIANGLE INST ; RES TRIANGLE INST INT ; RES TRIANGLE INST INTERNAT ; STRUBE DAVID ; SHOREY JAMIE ; STRUBE DAVID C

Assignee(s): RESEARCH TRIANGLE INST ; RESEARCH TRIANGLE INSTITUTE ; RESEARCH TRIANGLE INST INT ; RESEARCH TRIANGLE INSTITUTE INTERNATIONAL

Inventor(s): (std): STRUBE DAVID C ; STRUBE DAVID ; SHOREY JAMIE ; PITRUZZELLO ANN ; KRONER BARBARA

Agent(s): GRAY JOHN JAMES; KUNZLER LAW GROUP; NEEDHAM BRUCE 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

18) Family number: 43003956 (US2010256462A)

Title: METHOD AND SYSTEM FOR MONITORING THORACIC TISSUE FLUID

Abstract: A method for monitoring thoracic tissue. The method comprises intercepting reflections of electromagnetic (EM) radiation reflected from thoracic tissue of a patient in radiation sessions during a period of at least 24 hours, detecting a change of a dielectric coefficient of the thoracic tissue by analyzing respective the reflections, and outputting a notification indicating the change. The reflections are changed as an outcome of thoracic movements which occur during the period.

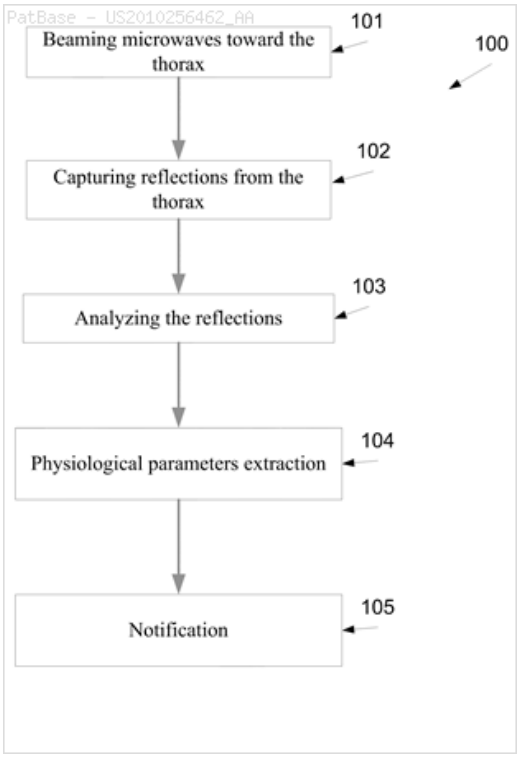
Classifications:

International (IPC 8-9): A61B10/00 A61B5/00 A61B5/0205 A61B5/0245 A61B5/0488 A61B5/05 A61B5/103 A61B5/1455 G01N22/00 H01Q1/00 (Advanced/Invention); A61B5/024 A61B5/11 (Advanced/Non-invention); A61B5/00 A61B5/024 A61B5/05 A61B5/145 (Core/Invention)

CPC: A61B5/7264 A61B5/7275 A61B5/00 A61B5/7203 A61B5/726 A61B5/05

European: A61B5/00 A61B5/05 K61B5/72B K61B5/72K10D

US: 343/700.00RS 343/700R 600/300 600/300S 600/301 600/301P 600/309 600/309S 600/365 600/407 600/407S 600/587 600/587S



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Publication number	Publication date	Application number	Application date
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EP2190344 A4	20130313	EP20080789867	20080904
EP2190344 B1	20171227	EP20080789867	20080904
EP2194871 A2	20100616	EP20080808013	20080904
EP2194871 A4	20130320	EP20080808013	20080904
EP2194871 B1	20160817	EP20080808013	20080904
EP3415090 A1	20181219	EP20170020594	20080904
ES2603283 T3	20170224	ES20080808013T	20080904
ES2664239 T3	20180418	ES20080789867T	20080904
JP2010537766 T2	20101209	JP20100523643T	20080904
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JP2015107338 A2	20150611	JP20150000023	20150105
JP5677841 B2	20150225	JP20100523644T	20080904
JP6130865 B2	20170517	JP20150000023	20150105
US2010256462 AA	20101007	US20080676381	20080904
US2011160549 AA	20110630	US20080676385	20080904
US2013281800 AA	20131024	US20130922299	20130620
WO09031149 A2	20090312	WO2008IL01198	20080904
WO09031149 A3	20100304	WO2008IL01198	20080904
WO09031150 A2	20090312	WO2008IL01199	20080904
WO09031150 A3	20100304	WO2008IL01199	20080904

Priority:

US20070969963P 20070905
US20070969965P 20070905
US20070969966P 20070905
EP20080789867 20080904
EP20080808013 20080904
JP20100523644 20080904
JP20100523644T 20080904
WO2008IL01198 20080904
WO2008IL01199 20080904
US20080676381 20080904
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US20100676385 20100701
US20130922299 20130620
JP20150000023 20150105

Probable Assignee: SENSIBLE MEDICAL INNOVATIONS LTD

Assignee(s): (std): ALMOG BENYAMIN ; BERGIDA SHLOMI ; KOCHBA ILAN ; MIZARAHI NADAV ; MIZRAHI NADAV ; SENSIBLE MEDICAL INNOVATIONS LTD ; SENSIBLE MEDICAL INNOVATIONS L ; SAROKA AMIR ; RONEN AMIR ; RAPPAPORT DAN

Assignee(s): KREOS CAPITAL V EXPERT FUND LP

Inventor(s): (std): SHLOMI BERGIDA ; NADAV MIZRAHI ; MIZARAHI NADAV ; ILAN KOCHBA ; DAN RAPPAPORT ; AMIR SAROKA ; AMIR RONEN ; SAROKA AMIR ; RONEN AMIR ; RAPPAPORT DAN ; MIZRAHI NADAV ; BERGIDA SHLOMI ; ALMOG BENYAMIN ; KOCHBA ILAN

Agent(s): FICHTER ROBERT ARNO; DENNEMEYER AND ASSOCIATES SA; ISERN JORGE; MARTIN D MOYNIHAN D B A PRTSI INC; G E EHRLICH 1995 LTD 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 ZA ZM ZW

19) Family number: 30661776 (US2004116784A)

Title: APPARATUS AND METHOD FOR BENEFICIAL MODIFICATION OF BIORHYTHMIC ACTIVITY

Abstract: Apparatus is provided, including a sensor, adapted to generate a sensor signal indicative of biorhythmic activity of a user of the apparatus, the sensor signal having a first characteristic, indicative of a voluntary action of the user, and a second characteristic, indicative of a benefit-related variable of the user. The apparatus also includes a control unit, adapted to receive the sensor signal, and, responsive to the second characteristics generate an output signal which directs the user to modify a parameter of the voluntary action indicated by the first characteristic.

Classifications:

International (IPC 8-9): A61B A61B5/00 A61B5/01 A61B5/02 A61B5/0205 A61B5/021 A61B5/0295 A61B5/04 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/08 A61B5/11 A61B5/145 A61B5/1455 A61B7/00 A61M21/00 A61M21/02 (Advanced/Invention); A61B5/00 (Advanced/Non-invention); A61B5/00 A61B5/02 A61B5/0205 A61B5/04 A61B5/08 A61M21/00 (Core/Invention)

International (IPC 1-7): A61B A61B1/00 A61B5/00 A61B5/02 A61B5/04 A61B5/08

CPC: A61B5/7239 A61B5/486 A61B5/1118 A61B5/01 A61B5/0402 A61B5/0488 A61B5/0476 A61B5/14542 A61B5/14551 A61B5/02007 A61B5/021 A61B5/0295 A61B5/743 A61B5/7405 A61B7/003 A61B5/02416 A61B5/0205 A61B5/4857 A61B5/6831

European: A61B5/0205 A61B5/48R A61B5/68B3B

US: 600/300 600/300P 600/309 600/323 600/324 600/364 600/476 600/479 600/481 600/483 600/484 600/485 600/500 600/507 600/508 600/509 600/513 600/529 600/531 600/532 600/538 600/544 600/546 600/547 600/549 600/595

Family:

Publication number	Publication date	Application number	Application date
AU2003286409 AA	20040709	AU20030286409	20031210
AU2003286409 BB	20090910	AU20030286409	20031210
CA2508976 AA	20050607	CA20032508976	20031210
CA2508976 C	20130129	CA20032508976	20031210
CN101026995 A	20070829	CN200380109759	20031210
CN101026995 B	20110518	CN200380109759	20031210
EP1578251 A2	20050928	EP20030777154	20031210
EP1578251 A4	20080514	EP20030777154	20031210
HK1108107 A1	20080502	HK20080101895	20080221
HK1108107 A3	20080502	HK20080101895	20080221
IL168939 A0	20060205	IL20030168939	20031210
IL168939 A1	20140528	IL20030168939	20031210
IN00607MN2005 A	20051021	IN2005MN00607	20050613
IN220909 B	20080829	IN2005MN00607	20050613
JP2006516413 T2	20060706	JP20040560158T	20031210
JP4515916 B2	20100804	JP20040560158T	20031210
KR20050084291 A	20050826	KR20057010844	20031210
NZ541061 A	20090731	NZ20030541061	20031210
US2004116784 AA	20040617	US20020323596	20021213
US2014155714 AA	20140605	US20140174437	20140206
US8672852 BB	20140318	US20020323596	20021213
WO04054429 A2	20040701	WO2003IL01053	20031210
WO04054429 A3	20061005	WO2003IL01053	20031210

Priority:

US20020323596 20021213 WO2003IL01053 20031210 IL20050168939 20050602 US20140174437 20140206

Probable Assignee: 2BREATHE TECHNOLOGIES LTD

Assignee(s): (std): GAVISH BENJAMIN ; INTERCURE LTD

Assignee(s): YAZMONIT LTD ; 2BREATHE TECHNOLOGIES LTD

Inventor(s): (std): GAVISH BENJAMIN ; BENJAMIN GAVISH

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; NTD PATENT AND TRADE MARK AGENCY LTD; SANFORD TCOLB AND CO; WEBB AND CO; ST ONGE STEWARD JOHNSTON AND REENS LLC

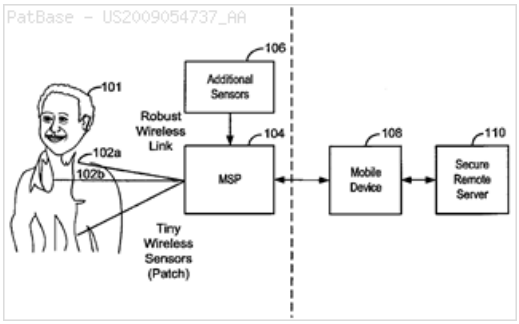
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

20) Family number: 42432198 (US2009054737A)

Title: WIRELESS PHYSIOLOGICAL SENSOR PATCHES AND SYSTEMS

Abstract: The present invention provides methods, devices, and systems for wireless physiological sensor patches and systems which incorporate these patches. The systems and methods utilize a structure where the processing is distributed

asymmetrically on the two or more types of ASIC chips that are designed to work together. The invention also relates to systems comprising two or more ASIC chips designed for use in physiological sensing wherein the ASIC chips are designed to work together to achieve high wireless link reliability/security, low power dissipation, compactness, low cost and support a variety of sensors for sensing various physiological parameters.



Classifications:
International (IPC 8-9): A61B5/00 A61B5/02 A61B5/0205 A61B5/024 A61B5/0404 A61B5/0408 A61B5/0478 A61B5/0492 A61B5/11 A61B5/1455 A61B7/00 G06F19/00 G06Q50/00 G08B21/02 H04L29/08 (Advanced/Invention);
A61B5/021 A61B5/024 A61B5/0476 A61B5/0488 A61B5/145 G06F19/00 H04W52/00 H04W84/00 H04W88/00 (Advanced/Non-invention);
A61B5/00 G06F19/00 G06Q50/00 G08B21/00 (Core/Invention)
CPC: G06F19/36 A61B5/0402 A61B5/11 A61B5/145 A61B5/0022 A61B5/0002 A61B5/0024 A61B5/021 A61B5/0404 A61B2560/0209 H04L67/04 H04L67/125 H04W84/18 H04W88/08 H04W52/0235 H04W52/0274 A61B5/0006 A61B5/0478 A61B5/0492 A61B5/0408 A61B5/14551 A61B5/02028 A61B7/00 A61B5/746 A61B5/7405 A61B5/742 A61B5/684 A61B2560/0214 A61B2560/0443 A61B5/024 A61B5/0816 A61B5/091 A61B2562/0247 A61B5/6833 A61B5/0205 A61B5/02438 A61B5/0476 A61B5/0488 A61B5/053 A61B5/087 A61B5/1112 A61B5/14532 A61B5/4504 A61B5/7232 A61B2560/0412 A61B2562/0219 G06F19/3418 G16H40/20 G16H40/40 G06F19/00
European: A61B5/00B A61B5/0205 A61B5/0404 A61B5/11M A61B5/68B3D1 G06F19/00M G06F19/34C H04L29/08N11M H04L29/08N3 K61B5/021 K61B5/024F K61B5/0402 K61B5/0476 K61B5/0488 K61B5/053 K61B5/087 K61B5/11 K61B5/145 K61B5/145G K61B5/45B K61B560/04B2 K61B562/02C S06F19/32G S06F19/34C
US: 340/539.12 600/300 600/300P 600/301 600/382 600/391 600/393 600/509 600/544 600/546 700/2 700/3 709/208 709/217 709/224 709/225

Family:

Publication number	Publication date	Application number	Application date
EP2191436 A2	20100602	EP20080798285	20080820
EP2191436 A4	20151223	EP20080798285	20080820
GB200815326 A0	20081001	GB20080015326	20080821
GB201210339 A0	20120725	GB20120010339	20080821
GB201210351 A0	20120725	GB20120010351	20080821
GB2452158 A1	20090225	GB20080015326	20080821
GB2452158 B2	20120801	GB20080015326	20080821
GB2488487 A1	20120829	GB20120010339	20080821
GB2488487 B2	20121017	GB20120010339	20080821
GB2488712 A1	20120905	GB20120010351	20080821
GB2488712 B2	20121017	GB20120010351	20080821
US2009054737 AA	20090226	US20080134151	20080605
US2015289814 AA	20151015	US20140537736	20141110
US8926509 BB	20150106	US20080134151	20080605
WO09029453 A2	20090305	WO2008US73739	20080820
WO09029453 A3	20090430	WO2008US73739	20080820

Priority:

US20070968023P 20070824 US20080134151 20080605 WO2008US73739 20080820 US20140537736 20141110

Probable Assignee: HMICRO INC

Assignee(s): (std): BECK JAMES C ; HMICRO INC ; MAGAR SURENDAR ; NIKNEJAD ALI ; SATTIRAJU VENKATESWARA RAO ; YUN LOUIS

Inventor(s): (std): SATTIRAJU VENKATESWARA RAO ; NIKNEJAD ALI ; MAGAR SURENDAR ; YUN LOUIS ; BECK JAMES C

Inventor(s): ALI NIKNEJAD ; VENKATESWARA RAO SATTIRAJU ; SURENDAR MAGAR ; LOUIS YUN ; JAMES C BECK

Agent(s): PRICE NIGEL JOHN KING; WILSON SONSINI GOODRICH AND ROSATI; REAMEY ROBERT H 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 ZA ZM ZW

21) Family number: 32437743 (US2005261559A)

Title: WIRELESS PHYSIOLOGICAL MONITORING SYSTEM

Abstract: Embodiments of the invention relate to a wireless physiological monitoring system. The system includes at least one wireless sensor and a monitoring device which are linked to one another of a wireless fashion for measuring physiological signals of a patient. The at least one wireless sensor is located on the patient and may comprise a wireless surface electrode assembly or a wireless needle assembly. The system may also comprise a wireless stimulator syncronized with the wireless sensor for performing certain diagnostic tests, such as nerve conduction velocity tests, for example. The wireless sensor preferably includes active, reference and common conductors. The common conductor can be used to measure the common mode voltage of the patient in the vicinity of the testing, and this voltage can then be subtracted from the measured active and reference voltages.
Classifications:
International (IPC 8-9): A61B5/00 A61B5/04 A61B5/0408 A61B5/0448 A61B5/0476 A61B5/0478 A61B5/0488 A61B5/0492 A61B5/0496 A61B5/05 A61B5/103 A61B5/11 A61M16/00 A61M16/06 A61N1/00 A61N1/04 A61N1/05 A61N1/36 A62B7/00 A62B9/00 B23P19/00 G08C17/02 H01S4/00 (Advanced/Invention);
A61M16/00 A61N1/05 (Advanced/Non-invention);
A61B5/00 A61B5/04 A61B5/0402 A61B5/0408 A61B5/0476 A61B5/0488 A61B5/0496 A61B5/05 A61B5/103 A61M16/00 A61M16/06 A61N1/04 A61N1/36 A62B7/00 A62B9/00 B23P19/00 G08C17/00 H01S4/00 (Core/Invention);
A61M16/00 (Core/Non-invention)
International (IPC 1-7): A61B5/00 A61B5/04 A61B5/0408 A61B5/0448 A61B5/0478 A61B5/0492 A61B5/05 A61M16/00

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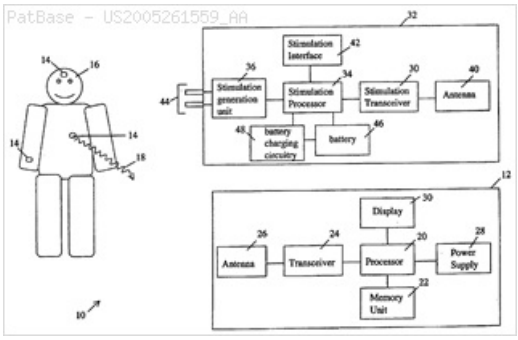

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CA2507789 AA	20051118	CA20052507789	20050517
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CA2507791 C	20110705	CA20052507791	20050517
CA2547371 AA	20061118	CA20062547371	20060518
CA2652593 AA	20081118	CA20072652593	20070517
CA2823869 AA	20051118	CA20052823869	20050517
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US8805527 BB	20140812	US20080332105	20081210
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Priority:

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US20080332105 20081210 US20120544743 20120709 CA20132507789 20130829

Probable Assignee: NATUS MEDICAL INC

Assignee(s): (std)**:** KURTZ RONALD L ; MUMFORD JOHN R ; WU JIANPING ; KURTZ RONALD LEON ; WEINROTH AARON PHILLIP ; MUMFORD JOHN ROBERT ; NATUS MEDICAL INC ; EXCEL TECH LTD ; HATCH LTD

Assignee(s): JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; EXCEL TECH LTD2568 BRISTOL CIRCLEOAKVILLEO1L7H 5S1CA ; KURTZ RONALD LEON1174 MONTROSE ABBEY DRIVEOAKVILLEO1L6M 1E4CA ; MUMFORD JOHN ROBERT1016 MISSISSAUGA HEIGHTS DR.MISSISSAUGAO1L5C 1A6CA ; NATUS MEDICAL INC1501 INDUSTRIAL ROADSAN CARLOSCA94070US

Inventor(s): (std)**:** MUMFORD JOHN R ; MUMFORD JOHN ROBERT ; WEINROTH AARON PHILLIP ; WU JIANPING ; KURTZ RONALD L ; KURTZ RONALD LEON

Inventor(s): MUMFORD JOHN ; KURTZ RONALD ; MUMFORD JOHN ROBERT1016 MISSISSAUGA HEIGHTS DR.MISSISSAUGAO1L5C 1A6CA ; KURTZ RONALD LEON1174 MONTROSE ABBEY DRIVEOAKVILLEO1L6M 1E4CA

Agent(s): BERESKIN AND PARR LLP; BERESKIN AND PARR LLP SENCRL SRL; BERESKIN AND PARR; SYLVAN S; TEMMERMAN LAW OFFICE; MATHEW J

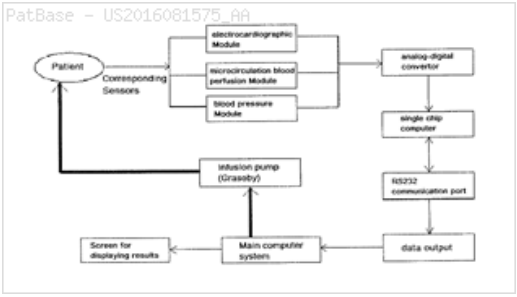
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE 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

22) Family number: 56411270 (US2016081575A)

Title: A LIFE MAINTENANCE MODE, A BRAIN INHIBITION THERAPY AND A PERSONAL HEALTH INFORMATION PLATFORM

Abstract: A life maintenance mode named as the third type of life maintenance mode, includes decomposing inspection

items of clinical diagnosis into a series of individual automatically measured and computed indicators of life condition data, popularized into people's daily life and work to be practiced continuously producing continuous diagnosis and inspection analysis report and trend; performing active control of the change of the life condition data by senior independent consciousness of cerebral cortex with the automatically measured and computed life condition data to serve as a quantitative traction device for treatment, rehabilitation, and health and longevity; predict and prevent the occurrence and development of diseases on the basis of the produced inspection analysis report and trend; automatically sending messages to remind a patient to check the treatment behaviors on the basis of doctor's advises and prescriptions in the track record of medical treatment, and providing an automatic no-response alarming service.



Classifications:
International (IPC 8-9): A61B19/00 A61B5/00 A61B5/01 A61B5/02 A61B5/0205 A61B5/026 A61B5/0402 A61B5/0476 A61B5/0478 A61B5/11 A61B5/145 A61B5/1455 A61B5/16 A61B90/00 A61M19/00 A61M21/02 A61M5/142 A61M5/172 A63F13/212 A63F13/332 G06F19/00 G16H50/30 G16H80/00 (Advanced/Invention)
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US: 600/301 604/66

Family:

Publication number	Publication date	Application number	Application date
CN103793593 A	20140514	CN201310566688	20131115
CN103793593 B	20180213	CN201310566688	20131115
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US2016081575 AA	20160324	US20140432365	20140718
US2017086698 AA	20170330	US20160254531	20160901
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US2017112392 AA	20170427	US20160254541	20160901
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Priority:

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US20160254541 20160901

Probable Assignee: WU YIBING

Assignee(s): (std): WU YIBING

Inventor(s): (std): WU YIBING

Agent(s): TISCHNER OLIVER; HARAKENZO WORLD PATENT AND TRADEMARK; SUNSHINE INTELLECTUAL PROPERTY INT CO LTD

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

23) Family number: 28831494 (US2004073098A)

Title: SELF-ADAPTIVE SYSTEM FOR THE ANALYSIS OF BIOMEDICAL SIGNALS OF A PATIENT

Abstract: Methods and systems that (a) adaptively segment a raw data stream(s) of different type biomedical signals; (b) assign attribute values to each segment; (c) determine an attribute domain based on a point corresponding to said segment attribute value; (d) generate a cluster set(s) in said attribute domain that includes a combination of points; (e) obtain a probability of order of appearance of each cluster point, according to its property value; (f) use said probability to update each point's property value; (g) repeat (d) through (f) while varying combinations of points in clusters according to their most updated property values and points derived from additional raw data stream adaptive segmentations; (h) associate at least one updated cluster with a normal/abnormal physiological state based on reference clusters in said domain; and (i) obtain the change probability between normal/abnormal physiological states using said probability of the order of appearance.
Classifications:
International (IPC 8-9): A61B5/00 A61B5/04 A61B5/0452 A61B5/103 A61M16/00 (Advanced/Invention);
A61B5/00 A61B5/04 A61B5/0452 A61B5/103 A61M16/00 (Core/Invention)
International (IPC 1-7): A61B A61B5/00 A61B5/04 A61B5/0452 A61B5/103 G06F17/00
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European: A61B5/00 A61B5/04 A61B5/0452 A61B5/103 A61B5/72B A61B5/72K12B A61M16/00 K61B5/72B2 K61B5/72K10D
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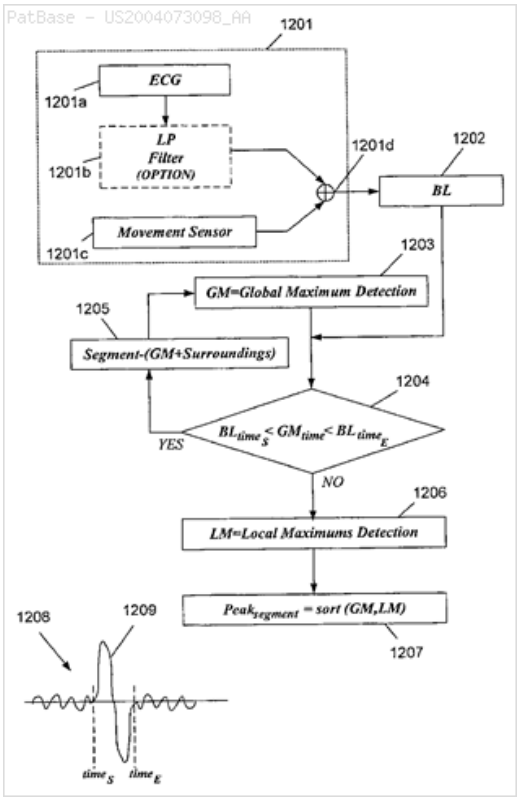

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Priority:

IL20020147502 20020107 WO2003IL00005 20030102

Probable Assignee: WIDEMED TECHNOLOGIES LTD

Assignee(s): (std): TODROS KOBI ; PRESSMAN ASSAF ; LEVI BARUCH ; MERGI ARYEH ; WIDEMED LTD ; GEVA AMIR

Assignee(s): KOBI TODROS ; WIDEMED TECHNOLOGIES LTD ; AMIR B GEVA ; ARYEH MERGI ; ASSAF PRESSMAN ; BARUCH LEVI

Inventor(s): (std): GEVA AMIR ; LEVI BARUCH ; MERGI ARYEH ; PRESSMAN ASSAF ; TODROS KOBI ; TODROS KOBY ; MERGY ARYEH ; LEVY BARUCH ; MERGI ARYE ; KOBI TODROS ; BARUCH LEVI ; ASSAF PRESSMAN ; ARYEH MERGI ; AMIR GEVA

Inventor(s): AMIR B GEVA

Agent(s): SANFORD TCOLB AND CO; LUZZATTO AND LUZZATTO; GE EHRLICH 1995 LTD

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

24) Family number: 43928174 (US2005076908A)

Title: AUTONOMIC AROUSAL DETECTION SYSTEM AND METHOD

Abstract: Various approaches to detecting arousals from sleep involve generating signals modulated by muscle tone, brainwave activity, and/or other nervous system activity associated with a patient's autonomic arousal response. Generating the signals and/or detecting autonomic arousals from sleep may be performed using an implantable device. Arousal information may be useful to identify sleep disorder events associated with arousals from sleep, for diagnostic purposes, and/or for therapy adjustment.

Classifications:

International (IPC 8-9): A61B5/04 A61B5/05 A61B5/08 A61B5/113 A61M16/00 A61N1/36 A61N1/365 (Advanced/Invention); A61M16/06 A61N1/362 (Advanced/Non-invention); A61B5/04 A61B5/05 A61B5/08 A61B5/11 A61M16/00 A61N1/36 A61N1/365 (Core/Invention); A61M16/06 A61N1/362 (Core/Non-invention)

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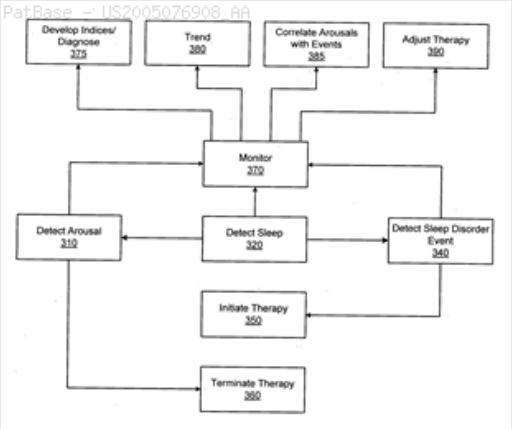

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Publication number	Publication date	Application number	Application date
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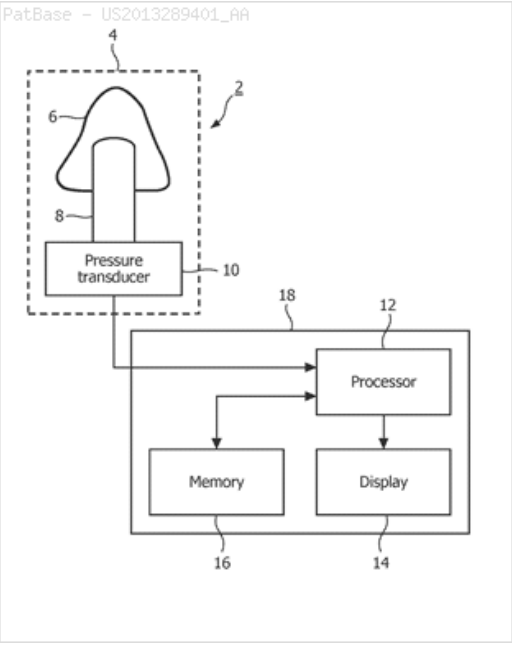
Priority:
US20030504344P 20030918 US20040920675 20040817

Probable Assignee: CARDIAC PACEMAKERS INC
Assignee(s): (std): CARDIAC PACEMAKERS INC ; HARTLEY JESSE W ; LEE KENT ; NI QUAN ; STAHMANN JEFFREY E
Inventor(s): (std): HARTLEY JESSE W ; LEE KENT ; NI QUAN ; STAHMANN JEFFREY E
Inventor(s): HARTLEY JESSE ; STAHMANN JEFFREY
Agent(s): CRAWFORD MAUNU PLLC; SEAGER TUFTE AND WICKHEM LLC

25) Family number: 50961442 (US2013289401A)

Title: METHOD AND APPARATUS FOR DIAGNOSING OBSTRUCTIVE SLEEP APNEA WITH AN AWAKE PATIENT

Abstract: An apparatus for use in diagnosing the presence of obstructive sleep apnea (OSA) in a patient includes a sensing module structured to measure a parameter indicative of a tremor in the patient's neck, tongue and/or throat muscles while the patient is awake, the parameter not being airflow through the patient's airway. The sensing module generates one or more electrical signals based on the measured parameter. The apparatus also includes a processor operatively coupled to the sensing module, the processor being structured to receive the one or more electrical signals, perform an analysis of the one or more electrical signals, and based on the analysis determine whether the transducer tremor has a frequency in at least one predetermined frequency range that is indicative of OSA.
Classifications:
International (IPC 8-9): A61B5/00 A61B5/0488 A61B5/05 A61B5/08 A61B7/00 A61B8/08 (Advanced/Invention)
CPC: A61B5/0488 G06F19/00 A61B5/4818 A61B7/003 A61B8/08
European: A61B5/0488 A61B5/48C8 A61B7/00D A61B8/08
US: 600/437 600/534 600/536



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EP2629661 A1	20130828	EP20110776899	20111012
EP2629661 B1	20161214	EP20110776899	20111012
IN02836CN2013 A	20140718	IN2013CN02836	20130412
JP2013543741 T2	20131209	JP20130534417T	20111012
JP6043289 B2	20161214	JP20130534417T	20111012
RU2013122802 A	20141127	RU20130122802	20111012

US2013289401 AA	20131031	US20110878591	20111012
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Priority:

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WO2011IB54504 20111012 US20110878591 20111012

Probable Assignee: PHILIPS ELECTRONICS N V KONINKLL

Assignee(s): (std): COLBAUGH MICHAEL EDWARD ; FLIGGE RONALD DEAN ; FLIGGE RONALD DEAN DEAN ; IYER VIJAY KUMAR ; KONINKL PHILIPS ELECTRONICS NV ; MECHLENBURG DOUGLAS ; ZIMMERMAN NATHAN ; SHAW EDMUND ARNLIOT ; ROYAL DUTCH PHILIPS ELECTRONICS LTD ; PHILIPS KONINKLL NV

Assignee(s): PHILIPS N V KONINKLL ; PHILIPS ELECTRONICS KONINKLL NV ; PHILIPS ELECTRONICS N V KONINKLL ; PHILIPS ELECTRONICS NV KONINKLL ; KONINKLIJKE PHILIPS ELECTRONICS N V

Inventor(s): (std): MECHLENBURG DOUGLAS ; FLIGGE RONALD DEAN ; IYER VIJAY KUMAR ; ZIMMERMAN NATHAN ; COLBAUGH MICHAEL EDWARD ; SHAW EDMUND ARNLIOT ; FLIGGE RONALD DEAN DEAN

Agent(s): STEFFEN THOMAS; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; VAN VELZEN MAAIKE 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 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

26) Family number: 49148656 (US2013060098A)

Title: MONITORING DEVICE

Abstract: The present invention relates to a novel monitoring device suitable for attachment to a surface of a subject and for monitoring specific physiological signals of a subject wearing the device.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/01 A61B5/0205 A61B5/024 A61B5/0245 A61B5/04 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/053 A61B5/08 A61B5/11 A61B5/1455 A61B6/00 A61B7/00 (Advanced/Invention)
CPC: A61B5/0816 A61B5/02028 A61B5/0205 A61B5/02416 A61B5/02438 A61B5/0402 A61B5/0488 A61B5/11 A61B5/14551 A61B5/412 A61B5/4806 A61B2560/0242 A61B2560/0412 A61B2562/0233 A61B2562/046
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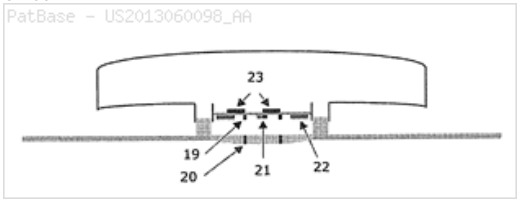
US: 600/301 600/324 600/476 600/479



Family:

Publication number	Publication date	Application number	Application date
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AU2010334812 BB	20150205	AU20100334812	20101222
BR112012017166 A2	20160315	BR20121117166	20101222
CA2785354 AA	20110630	CA20102785354	20101222
CN102811657 A	20121205	CN201080064281	20101222
EP2515744 A2	20121031	EP20100795397	20101222
JP2013515528 T2	20130509	JP20120545335T	20101222
US2013060098 AA	20130307	US20100518316	20101222
WO11076886 A2	20110630	WO2010EP70571	20101222
WO11076886 A3	20110922	WO2010EP70571	20101222

Priority:

EP20090180617 20091223 EP20100795397 20101222 WO2010EP70571 20101222

Probable Assignee: DELTA DANSK ELEKTRONIK LYS OG AKUSTIK

Assignee(s): (std): DELTA DANSK ELEKTRONIK ; DELTA DANSK ELEKTRONIK LYS AND AKUSTIK ; DELTA DANSK ELEKTRONIK LYS OG AKUSTIK ; DUUN SUNE ; HAAHR RASMUS GROENBEK ; THOMSEN ERIK V

Inventor(s): (std): HAAHR RASMUS GROENBEK ; HAAHR RASMUS GRONBEK ; DUUN SUNE ; THOMSEN ERIK V

Inventor(s): ERIK V THOMSEN ; RASMUS GRONBEK HAAHR ; SUNE DUUN

Agent(s): FB RICE; FB RICE PTY LTD; SIM AND MCBURNEY; INSPICOS A S; HANSEN CARSTEN 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

27) Family number: 15777379 (US2004163648A)

Title: BIO-MASK WITH INTEGRAL SENSORS

Abstract: A gas mask for use with associated monitoring and controlling apparatus is provided. A device for monitoring of patients with sleep disorders, breathing disorders or for anesthesia is provided. Different types of sensors on or in the mask and straps or caps connected to the mask include but are not limited to oximetery sensors, patient position sensors, eye movement sensors, leak detection sensors, EEG, EMG, EOG, ECG, PTT, microphones, pulse, blood pressure, oxygen saturation, temperature, movement sensors, position sensors, light sensors, leak detection sensors and gas delivery sensors. Another application provides for gas delivery to a bio-mask controlled, in part, via communication from a pacemaker to a bio-mask controller.

Classifications:

International (IPC 8-9): A61B5/0408 A61B5/0476 A61B5/0492 A61B5/08 A61B5/087 A61M A61M16/00 A61M16/01 A61M16/06 A62B18/02 A62B7/00 A62B9/00 (Advanced/Invention); A61B5/0402 A61B5/0476 A61B5/0488 A61B5/0492 A61B5/08 A61M16/00 A61M16/01 A61M16/06 (Advanced/Non-invention); A61B5/0408 A61B5/0476 A61B5/08 A61M16/00 A61M16/01 A61M16/06 A62B18/00 A62B9/00 (Core/Invention); A61B5/0402 A61B5/0476 A61B5/0488 (Core/Non-invention); A61B A61M (Subclass/Invention)
International (IPC 1-7): A61B5/0408 A61B5/08 A61B5/087 A61M16/00 A61M16/01 A61M16/06 A62B7/00
CPC: A61M16/0633 A61M16/0694 A61B5/6803 A61B5/04085 A61B5/0476 A61B5/0492 A61B5/0878 A61M16/06 A61M16/0683 A61M2230/04 A61M2230/08 A61M2230/10 A61M2230/205 A61M2230/30 A61M2230/50 A61M2230/60 A61M2230/62 A61M2230/63 A61M16/0858 A61M2016/0027 A61M16/0605 A61M2205/0238 A61M16/021
European: A61B5/0408D A61B5/087J A61B5/68B1B A61M16/06 A61M16/06S K61B5/0476 K61B5/0492 K61M16/06A7 K61M230/04 K61M230/08 K61M230/10 K61M230/20D K61M230/30 K61M230/50 K61M230/60 K61M230/62 K61M230/63
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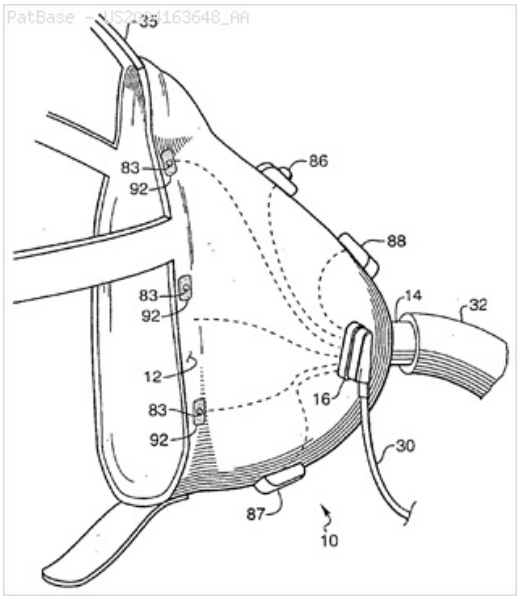


Family:

Publication number	Publication date	Application number	Application date
AT404236 E	20080815	AT20000974718T	20001120
AU200112932 A1	20010625	AU20010012932	20001120
AU200112932 A5	20010625	AU20010012932D	20001120
AU765937 B2	20031002	AU20010012932	20001120
CA2394217 AA	20020613	CA20002394217	20001120
CA2394217 C	20090106	CA20002394217	20001120
CN100512902 C	20090715	CN20008017186	20001120
CN1409646 A	20030409	CN20008017186	20001120
DE60039908 D1	20080925	DE20006039908	20001120
DK1237613 T3	20081215	DK20000974718T	20001120
EP1237613 A1	20020911	EP20000974718	20001120
EP1237613 A4	20040707	EP20000974718	20001120
EP1237613 B1	20080813	EP20000974718	20001120
HK1053433 A1	20100326	HK20030105678	20030808
HK1053433 B	20100326	HK20030105678	20030808
IN217342 B	20080411	IN2002DN00604	20020614
JP2003516825 T2	20030520	JP20010544939T	20001120
JP4771638 B2	20110914	JP20010544939T	20001120
KR100489139 B1	20050517	KR20027007675	20001120
KR20020077357 A	20021011	KR20027007675	20001120
RU2002116222 A	20040210	RU20020116222	20001120
RU2248813 C2	20050327	RU20020116222	20001120
US2004163648 AA	20040826	US20040777572	20040211
US2010147304 AA	20100617	US20090638891	20091215
US7204250 BA	20070417	US19990465054	19991216
US8281787 BB	20121009	US20090638891	20091215
WO0143804 A1	20010621	WO2000IB01712	20001120

Priority:

US19990465054 19991216 WO2000IB01712 20001120 KR20027007675 20020615
US20040777572 20040211 US20090638891 20091215

Probable Assignee: COMPUMEDICS LTD

Assignee(s): (std): BURTON DAVID ; COMPUMEDICS LTD ; COMPUMEDICS SLEEP PTY LTD

Assignee(s): COMPUMEDICS HOLDINGS PTY LTD ; COMPUMEDICS LIMITED

Inventor(s): (std): BURTON DAVID ; DAVID BURTON ; BEHRTON DEJVID

Inventor(s): COMPUMEDICS SLEEP PTY LTD

Agent(s): COMPUMEDICS LTD; RIDOUT AND MAYBEE LLP; LAWRENCE JOHN; BRIGGS AND MORGAN PA; FULBRIGHT AND JAWORSKI LLP; JOHN F; AUDREY J

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

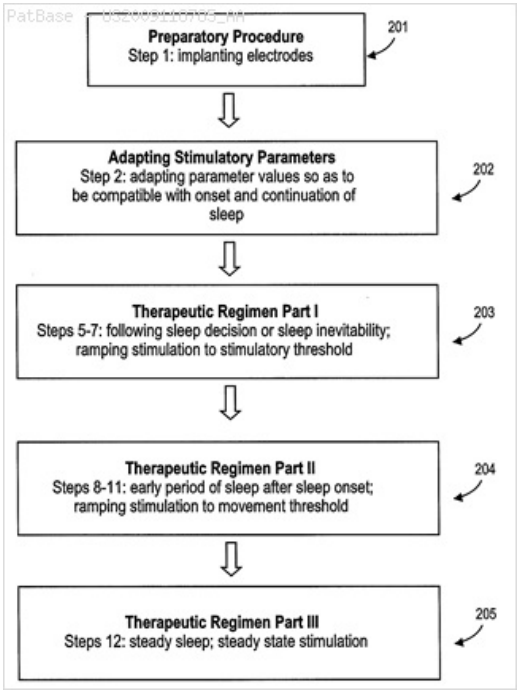
28) Family number: 43217988 (US2009118785A)

Title: METHOD OF IMPROVING SLEEP DISORDERED BREATHING

Abstract: A diaphragm pacing stimulatory method and a system to implement the method are provided to improve respiratory function and the quality of sleep in patients whose sleep is compromised by poor respiration. The diaphragm pacing method includes adaptations that make it particularly compatible with the onset of sleep and sustaining sleep. Embodiments of the method are operated independently of breathing effort the patient may make during sleep. Patients for whom the invention is appropriate include those with a neuromuscular disease, such as amyotrophic lateral sclerosis (ALS). System elements include an external electrical stimulator coupled to one or more implanted electrodes that stimulate diaphragm contraction. The system and method provide for a pacing of the diaphragm, improved breathing, and improved

sleep. Features of improved sleep include longer sleep time, an increased amount of REM sleep, and fewer episodes of wakefulness and restlessness.

Classifications:
International (IPC 8-9): A61B19/00 A61B5/00 A61B5/04 A61B5/0488 A61B5/08 A61N1/00 A61N1/05 A61N1/18 A61N1/36 (Advanced/Invention);
A61B5/00 (Advanced/Non-invention);
A61B19/00 A61B5/04 A61N1/00 A61N1/05 A61N1/36 (Core/Invention)
CPC: A61N1/05 A61N1/3601 A61B5/0488 A61B5/08 A61B5/4812 A61B5/4818
European: A61B5/0488 A61B5/08 A61B5/48C4 A61B5/48C8 A61N1/36C K61B5/48C8
US: 1/1 128/898 128/898S 600/546 600/546S 607/115 607/118 607/118S 607/42 607/42P



Family:

Publication number	Publication date	Application number	Application date
US2009118785 AA	20090507	US20080261979	20081030
US2010198296 AA	20100805	US20100690410	20100120
US2013238053 AA	20130912	US20130868848	20130423
US8428726 BB	20130423	US20100690410	20100120
US8478412 BB	20130702	US20080261979	20081030
US9138580 BB	20150922	US20130868848	20130423
WO09059033 A1	20090507	WO2008US81833	20081030

Priority:

US20070983915P 20071030 US20080261979 20081030 US20090145935P 20090120
US20100690410 20100120 US20130868848 20130423

Probable Assignee: SYNAPSE BIOMEDICAL INC

Assignee(s): (std): IGNAGNI ANTHONY R ; ONDERS RAYMOND P ; SYNAPSE BIOMEDICAL INC

Assignee(s): DIRECTOR OF OHIO DEVELOPMENT SERVICES AGENCY

Inventor(s): (std): ONDERS RAYMOND P ; IGNAGNI ANTHONY R

Agent(s): SHAY GLENN LLP; COHEN DAVID C ET AL

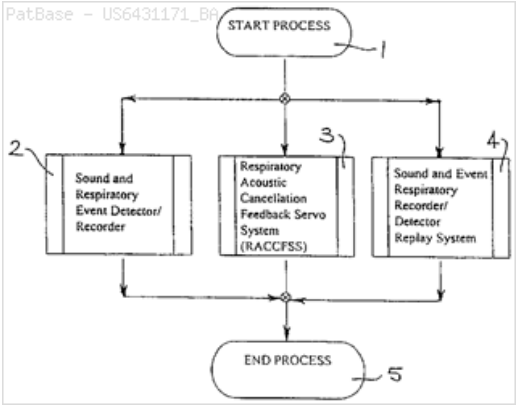
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

29) Family number: 20662119 (US6431171B)

Title: CONTROLLING GAS OR DRUG DELIVERY TO PATIENT

Abstract: An apparatus is provided for controlling gas delivery to a patient, to maintain effective respiratory function. The apparatus includes sensors for monitoring one or more physiological variables such as breathing airflow sound, EEG, EOG, ENG, and/or patient position. The apparatus includes a determining component for deriving, from the sensed variables, data representing a respiratory event and a component for determining from the data a gas pressure or modulated gas pressure to counteract tissue vibration associated with the respiratory event, thereby tending to cancel the respiratory event. The determining component may include an algorithm adapted to generate a gas pressure signal substantially 180 degrees out of phase relative to the tissue vibration. The apparatus may include a drug delivery module operable to deliver a drug in accordance with the sensed physiological variable and the determining component.

Classifications:
International (IPC 8-9): A61M15/00 A61M16/00 (Advanced/Invention);
A61M16/00 (Advanced/Non-invention);
A61M15/00 A61M16/00 (Core/Invention)
International (IPC 1-7): A61M16/00 A62B7/00
CPC: A61M16/024 A61M15/00 A61M2230/04 A61M2230/08 A61M2230/10 A61M2230/18 A61M2230/205 A61M2230/60
European: A61M15/00 A61M16/00 K61M230/04 K61M230/08 K61M230/10 K61M230/18 K61M230/20D K61M230/60
US: 128/204.18 128/204.21 128/204.22 128/204.23 128/848 381/71



Family:

Publication number	Publication date	Application number	Application date
AT276001 E	20041015	AT19970917938T	19970507
AU199726269 A1	19981127	AU19970026269	19970507
AU741637 B2	20011206	AU19970026269	19970507
CN1154521 C	20040623	CN19971082153	19970507
CN1254297 A	20000524	CN19971082153	19970507
DE69730748 D1	20041021	DE19976030748	19970507
DE69730748 T2	20050922	DE19976030748T	19970507
EP1007125 A1	20000614	EP19970917938	19970507
EP1007125 A4	20011212	EP19970917938	19970507
EP1007125 B1	20040915	EP19970917938	19970507
IL132748 A0	20010319	IL19970132748	19970507
IL132748 A1	20031123	IL19970132748	19970507
JP2001523136 T2	20011120	JP19980547530T	19970507
JP4090079 B2	20080528	JP19980547530T	19970507
KR100454157 B1	20041026	KR19997010281	19991106
KR20010012329 A	20010215	KR19997010281	19970507
RU2197281 C2	20030127	RU19990125607	19970507
RU99125607 A	20010827	RU19990125607	19970507
US6431171 BA	20020813	US19990423380	19991105
VN5532 A1	20060426	VN19990001046	19970507
WO9850095 A1	19981112	WO1997AU00278	19970507

Priority:

CN19971082153 19970507 WO1997AU00278 19970507

Probable Assignee: COMPUMEDICS LTD

Assignee(s): (std): BURTON DAVID ; COMPUMEDICS LTD ; COMPUMEDICS SLEEP PTY LTD ; KOMP JUMEDIKS SLIP PTI LTD ; COMPURMEDICS SLEEP PTY LTD

Assignee(s): KOMP'JUMEDIKS SLIP PTI. LTD. ; COMPUMEDICS SLEEP PTY LTD ABBOTSFORD ; COMPUMEDICS MEDICAL INNOVATION PTY LTD ; COMPUMEDICS SLEEP PTY

Inventor(s): (std): BURTON DAVID ; D BURTON ; DAVID BURTON ; BURTON D ; BERTON DEHVID

Agent(s): COMPUMEDICS LTD; DR MARK FRIEDMAN LTD; GE EHRLICH 1995 LTD; WOLFF BREGMAN AND GOLLER

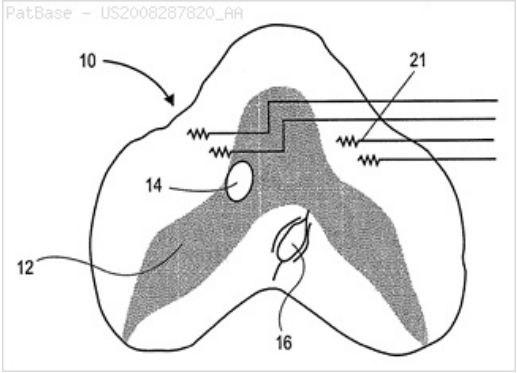
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU

30) Family number: 42525634 (US2008287820A)

Title: DEVICES AND METHODS FOR ASSESSING MOTOR POINT ELECTROMYOGRAM AS A BIOMARKER

Abstract: Described herein are methods of detecting the presence or progression of neuromuscular disorders (including ALS) based at least in part on diaphragm EMG signals taken at different points in time from the same implanted electrode(s). Signals may be used to diagnose or to monitor progression of a disorder or to track a treatment. Thus, diaphragm EMG signal may be used as a marker (e.g., a "biomarker") for the detection or progression of a neurological disorder such as ALS. The characteristics or parameters of diaphragm EMG signals may be used to create an activity index, which may be output or compared and further analyzed. These signals may also be analyzed to show a difference between the left and right sides of the diaphragm.

Classifications:
International (IPC 8-9): A61B10/00 A61B5/04 A61B5/0488 A61N1/36 (Advanced/Invention);
A61B5/0492 (Advanced/Non-invention);
A61B5/04 A61B5/0488 A61N1/36 (Core/Invention)
CPC: A61B5/0488 A61N1/3601
European: A61B5/0488 A61N1/36C
US: 600/529 600/529P



Family:

Publication number	Publication date	Application number	Application date
US2008287820 AA	20081120	US20080122482	20080516
US9820671 BB	20171121	US20080122482	20080516
WO08144578 A1	20081127	WO2008US64002	20080516

Priority:

US20070938686P 20070517 US20080122482 20080516

Probable Assignee: SYNAPSE BIOMEDICAL INC

Assignee(s): (std): IGNAGNI ANTHONY R ; ONDERS RAYMOND P ; SYNAPSE BIOMEDICAL INC

Assignee(s): DIRECTOR OF OHIO DEVELOPMENT SERVICES AGENCY

Inventor(s): (std): ONDERS RAYMOND P ; IGNAGNI ANTHONY R

Agent(s): SHAY GLENN LLP; SHOOP RICHARD D 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 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

31) Family number: 62116993 (WO16142793A1)

Title: PORTABLE ELECTRONIC DEVICE TO PROCESS A SIGNAL ACQUIRED FROM A LIVING BODY AND METHOD THEREOF

Abstract: The present application relates to a portable electronic device for processing a signal acquired from a living body. The Applicant has perceived that the portable electronic device according to the present invention has the following advantages: - it allows automatic detection of biological parameters indicative of sleep behaviour disorders (for example, of the RBD type) and, preferably, sleep apnea, for largescale screening applications; - it can be used at the home of a subject who reports sleep disorders that are not well defined; it does not require the presence of specialized medical or technical personnel; - it is compact; - it is flexible; - it can be easily worn and used by the subject himself or herself and does not need to be applied by technical or medical personnel; - it provides a result that can be easily interpreted by the subject without the aid of medical personnel; - it is not cumbersome and does not cause difficulties in falling asleep or maintaining a qualitatively and quantitatively optimal sleep, and thus enables a valid test.

Classifications:

International (IPC 8-9): A61B5/024 A61B5/04 (Advanced/Invention); A61N1/36 (Advanced/Non-invention)

CPC: A61B5/02405 A61B5/0006 A61B5/0024 A61B5/02416 A61B5/04017 A61B5/4076 A61B5/4812 A61B5/4842 A61B5/0205 A61B5/14551 A61B5/4818 A61B5/4815 A61B5/02055 A61B5/0245 A61B5/0456 A61B5/6898 A61B5/7253

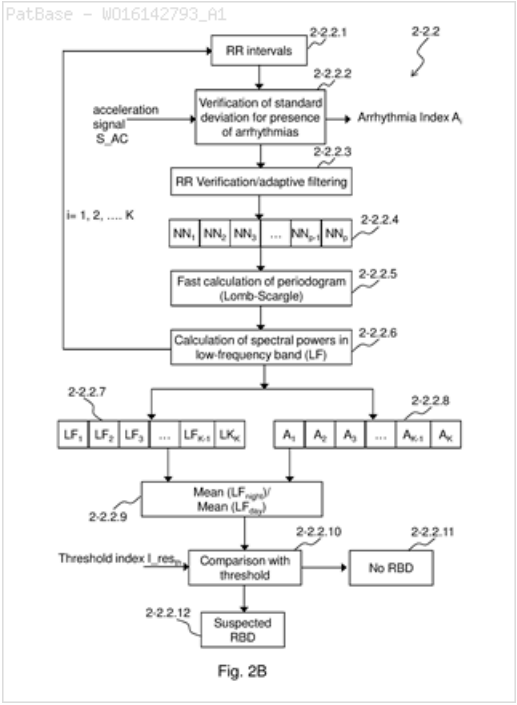


Fig. 2B

Family:

Publication number	Publication date	Application number	Application date
DE602016007203 D1	20181206	DE201660007203T	20160212
EP3267880 A1	20180117	EP20160712495	20160212
EP3267880 B1	20181114	EP20160712495	20160212
WO16055129 A1	20160414	WO2015EP00550	20150312
WO16142793 A1	20160915	WO2016IB50758	20160212

Priority:

IT2014MI00312U 20141010 WO2015EP00550 20150312 EP20160712495 20160212 WO2016IB50758 20160212

Probable Assignee: MICROBIOMED S R L

Assignee(s): (std): GAMBARDELLA ANTONIO ; MICROBIOMED S R L ; QUATTRONE ALDO ; VESCIO BASILIO ; SALSONE MARIA

Assignee(s): MICROBIOMED SRL

Inventor(s): (std): GAMBARDELLA ANTONIO ; QUATTRONE ALDO ; SALSONE MARIA ; VESCIO BASILIO

Agent(s): MANITZ FINSTERWALD PATENTANWAELTE PARTMBB; DONDI SILVIA; VALENTINI GIULIANO; PENZA GIANCARLO 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

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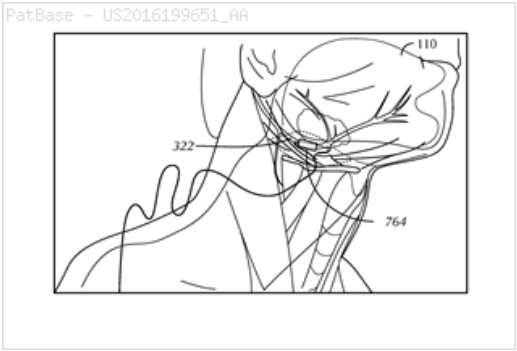
32) Family number: 61544688 (US2016199651A)

Title: METHOD FOR ADJUSTING A SYSTEM FOR STIMULATING A HYPOGLOSSAL NERVE

Abstract: A method for titrating a stimulation parameter for one or more electrode contacts in a system for stimulating a hypoglossal nerve of a patient includes activating one of the one or more electrode contacts to stimulate the hypoglossal nerve of the patient, obtaining a first and/or second physiological measurement from the patient, comparing the first and/or second physiological measurement to a first and/or second predetermined target value, adjusting a stimulation parameter for the one of the one or more electrode contacts if the first and/or second physiological measurement differs from the first and/or second predetermined target value.

Classifications:
International (IPC 8-9): A61B A61B5/00 A61B5/021 A61B5/0476 A61B5/0488 A61B5/0496 A61B5/05 A61B5/087 A61B5/145 A61N A61N1/05 A61N1/36 (Advanced/Invention);
A61B5/021 A61B5/024 A61B5/026 A61B5/04 A61B5/087 A61B5/145 (Advanced/Non-invention)
CPC: A61B5/021 A61B5/02405 A61B5/026 A61B5/04 A61B5/4047 A61N1/0556 A61N1/3611 A61B5/02108 A61B5/0476 A61B5/0488 A61B5/0496 A61B5/087 A61B5/14542 A61B5/4818 A61N1/3601 A61N1/36 A61N1/36185 A61B5/4836 A61N1/36139
US: 607/42



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Publication number	Publication date	Application number	Application date
AU2015294336 AA	20160128	AU20150294336	20150720
AU2015294336 BB	20171207	AU20150294336	20150720
AU2018201481 AA	20180322	AU20180201481	20180301
EP3171772 A1	20170531	EP20150825256	20150720
EP3171772 A4	20180124	EP20150825256	20150720
HK1236371 A1	20180329	HK20170110207	20171011
US2016199651 AA	20160714	US20150898956	20150720
US2017215791 AA	20170803	US20170492079	20170420
US9656083 BB	20170523	US20150898956	20150720
WO16014391 A1	20160128	WO2015US41101	20150720

Priority:

US20140027363P 20140722 AU20150294336 20150720 US20150898956 20150720
WO2015US41101 20150720 US20150898956 20151216 US20170492079 20170420
AU20180201481 20180301

Probable Assignee: IMTHERA MEDICAL INC

Assignee(s): (std): IMTHERA MEDCAL INC ; IMTHERA MEDICAL INC

Inventor(s): (std): BENKE JASPER ; LIMA MARCELO G ; LMA MARCELO G ; MEADOWS PAUL M ; ZAD FASAL N ; ZAIDI FAISAL N

Agent(s): DAVIES COLLISON CAVE PTY LTD; LAM ALVIN; GLOBAL IP AGENT CO LTD; MORGAN LEWIS AND BOCKIUS LLP; GOWEN GAYLE G ET AL

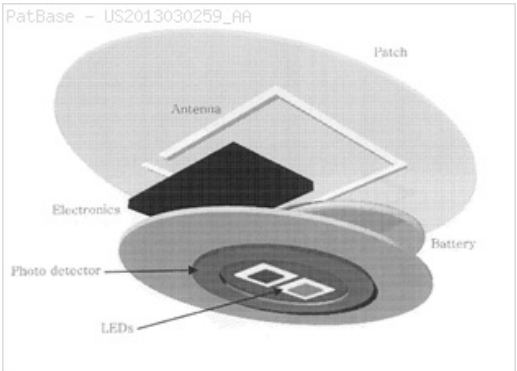
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW 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

33) Family number: 49142696 (US2013030259A)

Title: MONITORING SYSTEM

Abstract: The present invention relates to a novel monitoring system suitable for attachment to a surface of a subject and for monitoring physiological signals of a subject wearing the system.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/024 A61B5/0245 A61B5/0488 A61B5/053 A61B5/08 A61B6/00 A61B7/00 A61B8/08 (Advanced/Invention)
CPC: A61B5/02028 A61B5/002 A61B5/0205 A61B5/02438 A61B5/0245 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/0533 A61B5/0816 A61B5/1112 A61B5/113 A61B5/14552 A61B5/4094 A61B5/412 A61B5/4266 A61B5/4818 A61B5/4824 A61B5/6833 A61B7/00 A61B2560/0412
European: A61B5/00B A61B5/0205 A61B5/02F A61B5/1455N A61B5/1455N2 A61B5/40F6 A61B5/41D A61B5/42M2 A61B5/48C8 A61B5/48E A61B5/68B3D1 K61B5/0245 K61B5/024F K61B5/0402 K61B5/0476 K61B5/0488 K61B5/053B4 K61B5/08R K61B5/113 K61B5/11M K61B560/04B2 K61B7/00
US: 600/301



Family:

Publication number	Publication date	Application number	Application date
EP2338409 A1	20110629	EP20090180610	20091223
EP2515747 A2	20121031	EP20100798336	20101222
EP2896356 A1	20150722	EP20140195630	20101222
US2013030259 AA	20130131	US20100518757	20101222
WO11076884 A2	20110630	WO2010EP70569	20101222
WO11076884 A3	20110909	WO2010EP70569	20101222

Priority:

EP20090180610 20091223 EP20100798336 20101222 WO2010EP70569 20101222 EP20140195630 20101222

Probable Assignee: DELTA DANSK ELEKTRONIK LYS OG AKUSTIK

Assignee(s): (std): BRANEBJERG JENS ; DELTA DANSK ELEKTRONIK LYS AND AKUSTIK ; DELTA DANSK ELEKTRONIK LYS OG AKUSTIK ; DUUN SUNE ; HAAHR RASMUS GROENBEK ; HOPPE KARSTEN ; THOMSEN ERIK V ; THOMSEN ERIK

Inventor(s): (std): THOMSEN ERIK ; HAAHR RASMUS GRONBEK ; THOMSEN ERIK V ; BRANEBJERG JENS ; HOPPE KARSTEN ; HAAHR RASMUS GROENBEK ; DUUN SUNE

Agent(s): INSPICOS A S; NIELSEN LEIF; HANSEN CARSTEN 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

34) Family number: 49963427 (US2013300573A)

Title: PATIENT MONITORING AND SURVEILLANCE SYSTEM, METHODS, AND DEVICES

Abstract: Provided herein are methods, devices and systems for the remote monitoring and/or surveillance of a patient's location, position, movement, vital signs, biopotentials, or a combination thereof using transmission of stepped-frequency radar signals, detecting reflections of the transmitted signals and processing the frequency and phase shifts.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/02 A61B5/0402 A61B5/0476 A61B5/145 G06Q50/00 H04B7/24 H04W88/02 (Advanced/Invention)
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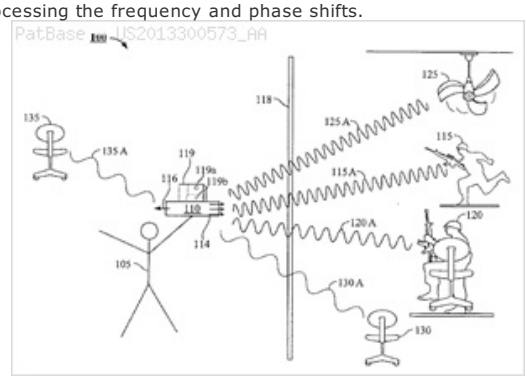
European: A61B5/11N G01S13/36 G01S13/42 G01S7/40 K61B19/44H K61B5/01 K61B5/024F K61B5/0402 K61B5/0476 K61B5/0488 S01S13/44G
US: 340/870.01



Family:

Publication number	Publication date	Application number	Application date
EP2571418 A2	20130327	EP20110784108	20110517
EP2571418 A4	20131030	EP20110784108	20110517
US2013300573 AA	20131114	US20110698592	20110517
WO11146517 A2	20111124	WO2011US36857	20110517
WO11146517 A3	20120119	WO2011US36857	20110517

Priority:

US20100346809P 20100520 US20110698592 20110517 WO2011US36857 20110517

Probable Assignee: LIFEFLOW TECHNOLOGIES INC

Assignee(s): (std): BROWN DAVID ; LIFEFLOW TECHNOLOGIES INC ; NORDIN DAVID ; TERAN MANUEL

Inventor(s): (std): TERAN MANUEL ; NORDIN DAVID ; BROWN DAVID

Agent(s): WICHMANN HENDRIK; HAVRANEK KRISTIN J ET AL

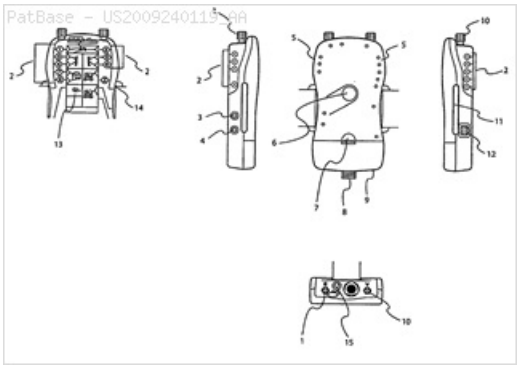
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY 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

35) Family number: 39346435 (US2009240119A)

Title: DEVICE AND METHOD FOR DETERMINING A COMPARISON VALUE OF BIODATA AND FOR RECORDING BIODATA

Abstract: The method and the device are used for evaluating recorded measurement data. In particular, the use of the method and of the device makes it possible to detect the individual risk of a living being in respect of certain disease states and, if appropriate, to automatically evaluate correspondingly recognized risks in a device control. Measurement data in respect of heart-specific and/or circulation-specific parameters or respiration-specific parameters of a patient are preferably recorded and evaluated. The measurement data are determined over a defined period of time and the measurement data are evaluated taking into account the time information. A particularly effective implementation of the method can be based on pattern recognition in which individual patterns and/or sequence patterns are evaluated.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/02 A61B5/024 A61B5/0295 A61B5/04 A61B5/0402 A61B5/08 A61B5/14 A61B5/1455 (Advanced/Invention);
A61B5/00 A61B5/02 A61B5/04 A61B5/14 (Core/Invention)
CPC: A61B5/02 A61B5/024 A61B5/0285 A61B5/0205 A61B5/08 A61B5/082 A61B5/1135 A61B5/14551 A61B5/4818 A61B2560/0443 A61B5/7275 A61B5/00 A61B5/0006 A61B5/02405 A61B5/02416 A61B5/02438 G06F19/00
European: A61B5/00 A61B5/00B2 A61B5/00B3B A61B5/02 A61B5/0205 A61B5/024A A61B5/024D A61B5/024F A61B5/1455N A61B5/48C8 A61B5/72M2 K61B5/024 K61B5/0285 K61B5/08 K61B5/113B K61B5/72M2 K61B560/04H
US: 600/301 600/301P



Family:

Publication number	Publication date	Application number	Application date
DE102007016446 A1	20071018	DE200710016446	20070404
DE102007016447 A1	20071011	DE200710016447	20070404
EP2004037 A1	20081224	EP20070722172	20070404
EP2004037 B1	20180912	EP20070722172	20070404
US2009240119 AA	20090924	US20070225980	20070404
US9801589 BB	20171031	US20070225980	20070404
WO07115553 A1	20071018	WO2007DE000614	20070404

Priority:

DE200610018040 20060407 DE200610018041 20060407 DE200710016447 20070404
DE200710016446 20070404 WO2007DE000614 20070404

Probable Assignee: WEINMANN GERATE FUR MEDIZIN GMBH AND CO KG

Assignee(s): (std): LOEWENSTEIN MEDICAL TECH S A ; SCHOELLER BERND ; SCHWAIBOLD MATTHIAS ; SOMMERMEYER DIRK ; WEINMANN G GERAETE MED

Assignee(s): WEINMANN GERAETE F MEDIZIN GMBH AND CO KG ; WEINMANN GERAETE FUER MEDIZIN GMBH AND CO KG ; WEINMANN GERATE FUR MEDIZIN GMBH ; WEINMANN GERATE FUR MEDIZIN GMBH AND CO KG ; LOEWENSTEIN MEDICAL TECHNOLOGY GMBH AND CO KG ; LOEWENSTEIN MEDICAL TECHNOLOGY SA

Inventor(s): (std): SCHOELLER BERND ; SCHWAIBOLD MATTHIAS ; SOMMERMEYER DIRK

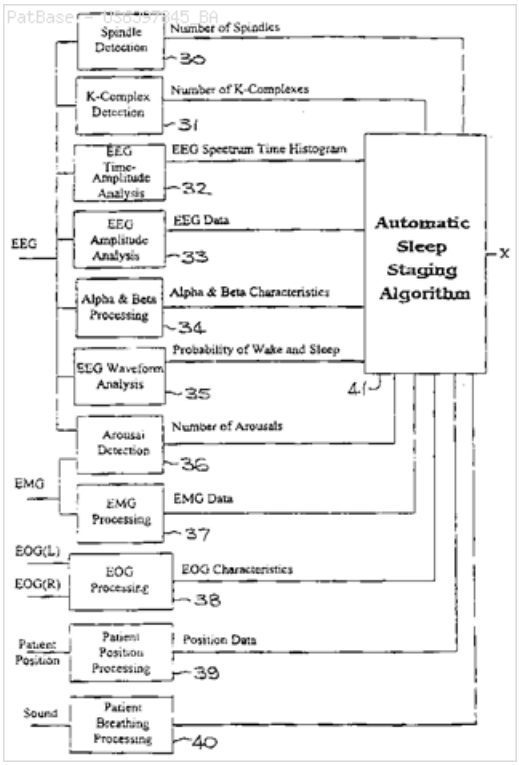
Agent(s): KLICKOW HANS HENNING; KLICKOW AND WETZEL PARTGMBB; FRIEDRICH KUEFFNER; ABEL LAW GROUP LLP

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 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 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

36) Family number: 23234235 (US6397845B)

Title: APPARATUS FOR GAS DELIVERY

Abstract: An apparatus for controlling gas delivery to a patient is disclosed, wherein delivery is adapted to maintain a physiological sleep state. The apparatus includes a monitoring device that monitors EEG, EOG, EMG, patient position and patient breathing. The apparatus also contains a microprocessor, which is programmed to derive sleep state specific indicators from the data received by the monitoring device and to determine if the sleep state is in a stable or deteriorating phase, where upon gas pressure will be automatically adjusted to maintain the sleep state if desired. The microprocessor is programmed with a unique automatic sleep staging algorithm and a gas pressure seek algorithm which work together to automatically adjust delivered respiratory gas pressure to a user based upon the determined sleep state and the sleep states condition.
Classifications:
International (IPC 8-9): A61B5/0205 A61H31/02 A61M16/00 A61M21/00 (Advanced/Invention);
A61F5/56 (Advanced/Non-invention);
A61B5/0205 A61H31/00 A61M16/00 (Core/Invention);
A61F5/56 (Core/Non-invention)
International (IPC 1-7): A61H31/02 A61M16/00 A62B7/00 F16K31/02
CPC: A61M16/024 A61M16/0051 A61F5/56 A61M2016/0021 A61M2230/04 A61M2230/10 A61M2230/18 A61M2230/43 A61M2230/60
European: A61M16/00 K61F5/56 K61M16/00A11 K61M16/00A8B2 K61M230/04 K61M230/10 K61M230/18 K61M230/43 K61M230/60
US: 128/204.18 128/204.21 128/204.23 128/204.26



Family:

Publication number	Publication date	Application number	Application date
AT287743 E	20050215	AT19960934203T	19961031
AU199672679 A1	19970522	AU19960072679	19961031
AU627395 A0	19951123	AU1995PN06273	19951031
AU707148 B2	19990701	AU19960072679	19961031
CN1187105 C	20050202	CN19961097921	19961031
CN1202832 A	19981223	CN19961097921	19961031
DE69634262 D1	20050303	DE19966034262	19961031
DE69634262 T2	20060330	DE19966034262T	19961031
EP0862475 A1	19980909	EP19960934203	19961031
EP0862475 A4	19991208	EP19960934203	19961031
EP0862475 B1	20050126	EP19960934203	19961031
JP11514279 T2	19991207	JP19970516920T	19961031
JP3798023 B2	20060719	JP19970516920T	19961031
KR100446133 B1	20050113	KR19980703167	19961031
KR19990067210 A	19990816	KR19980703167	19961031
RU2198689 C2	20030220	RU19980110639	19961031
RU98110639 A	20000620	RU19980110639	19980601
US6397845 BA	20020604	US19980066421	19981208
VN3306 A1	20030325	VN19980000469	19980530
WO9716216 A1	19970509	WO1996AU00679	19961031

Priority:

AU1995PN06273 19951031 AU19960072679 19961031 WO1996AU00679 19961031

Probable Assignee: COMPUMEDICS LTD

Assignee(s): (std): BURTON D ; BURTON DAVID ; COMPUMEDICS LTD ; COMPUMEDICS SLEEP PTY ; KOMPAMEDIKS SLIP PTI LTD ; COMPUMEDICS SLEEP PTY LTD

Assignee(s): COMPUMEDICS SLEEP PTY LTD ABBOTSFORD ; COMPUMEDICS SLEEP PTY ABBOTSFORD

Inventor(s): (std): DAVID BURTON ; BURTON DAVID ; BARTON DEHVID

Agent(s): COMPUMEDICS LTD

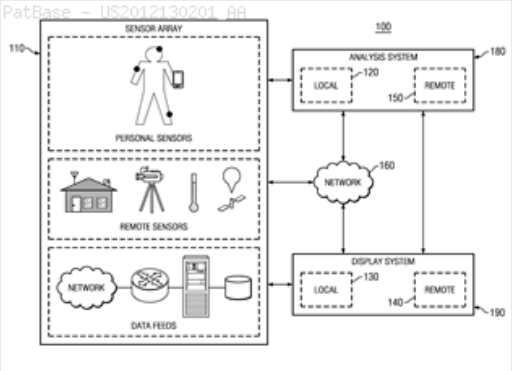
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CN CU CZ DE DK EE ES FI FR GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

37) Family number: 51132745 (US2012130201A)

Title: DIAGNOSIS AND MONITORING OF DYSPNEA

Abstract: In particular embodiments, a method includes accessing data streams from respiration sensors, accelerometers, or pulse oximeters monitoring a person's body, analyzing data sets collected from the person when the person is engaged in various activities, and determining the current dyspnea grade of the person.

Classifications:
International (IPC 8-9): A61B5/08 A61B5/11 A61B5/1455 (Advanced/Invention)
CPC: A61B5/08 A61B5/1118 A61B5/14542
European: A61B5/08 K61B5/11Q K61B5/145N
US: 600/301 600/301P



Family:

Publication number	Publication date	Application number	Application date
EP2457505 A1	20120530	EP20110189410	20111116
JP2012110713 A2	20120614	JP20110255107	20111122
US2012130201 AA	20120524	US20100954251	20101124

Priority:

US20100954251 20101124

Probable Assignee: FUJITSU LTD

Assignee(s): (std)**:** FUJITSU LTD ; JAIN JAWAHAR

Assignee(s): FUJITSU LIMITED

Inventor(s): (std)**:** JAIN JAWAHAR

Agent(s): HOLZ ULRIKE; ITOH TADAHIKO

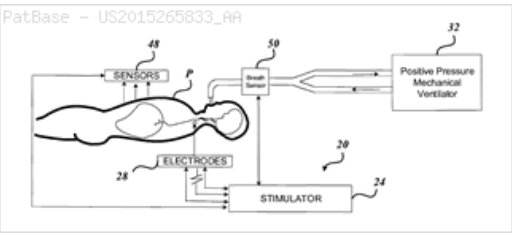
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

38) Family number: 55409002 (US2015265833A)

Title: TRANSVASCULAR DIAPHRAGM PACING SYSTEMS AND METHODS OF USE

Abstract: Transvascular diaphragm pacing systems (TDPS) and methods are disclosed for providing respiratory therapy to a patient. The TDPS can provide rapid insertion and deployment of endovascular pacing electrodes in critically ill patients who require intubation and invasive PPMV in order to support the physiological requirements of the human ventilatory system. The systems and methods make best use of the contractile properties of the diaphragm muscle and prevent muscle disuse and muscle atrophy. This can be carried out by engaging the phrenic nerves using patterned functional electrical stimulation applied to endovascular electrodes that are temporarily and reversibly inserted in central veins of the patient, such as the left subclavian vein and the superior vena cava. The TDPS can be designed to seamlessly interface with any commercially available positive-pressure ventilatory assistance/support equipment such as is commonly in use in hospital intensive care units (ICU) for treating critically ill patients with breathing insufficiencies, pain, trauma, sepsis or neurological diseases or deficits.

Classifications:
International (IPC 8-9): A61B5/08 A61M16/00 A61N1/05 A61N1/08 A61N1/36 (Advanced/Invention)
CPC: A61M16/00 A61M16/0069 A61M2205/054 A61N1/3611 A61N1/0551 A61N1/3601 A61N1/36139 A61B5/08 A61M2016/0024 A61M2230/60 A61N1/056 A61M2230/005 A61M16/026
US: 128/204.21 128/204.23 607/42



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BR112014032002 A2	20170627	BR20141132002	20130621
CA2877049 AA	20141217	CA20132877049	20130621
CN104684614 A	20150603	CN201380039158	20130621
CN104684614 B	20171017	CN201380039158	20130621
EP2863987 A1	20150429	EP20130807238	20130621
EP2863987 A4	20160727	EP20130807238	20130621
JP2015519975 T2	20150716	JP20150517565T	20130621
JP2018140249 A2	20180913	JP20180116590	20180620
JP6359528 B2	20180718	JP20150517565T	20130621
US2015265833 AA	20150924	US20130410022	20130621
US2015367127 AA	20151224	US20150839432	20150828
US2018361148 AA	20181220	US20180111644	20180824
US9776005 BB	20171003	US20150839432	20150828
WO13188965 A1	20131227	WO2013CA00594	20130621

Priority:

US20120662579P 20120621 JP20150517565T 20130621 US20130410022 20130621
WO2013CA00594 20130621 US20140410022 20141219 US20150839432 20150828
JP20180116590 20180620 US20180111644 20180824

Probable Assignee: LUNGPACER MEDICAL INC

Assignee(s): (std): LUNGPACER MEDICAL INC ; MEYYAPPAN RAMASAMY ; TANG JESSICA KIT SUM ; SIMON FRASER UNIV ; SANDOVAL RODRIGO ANDRES ; BARU MARCELO ; COQUINCO BERNARD ; HOFFER JOAQUIN ANDRES ; UNIV FRASER SIMON

Assignee(s): COQUINCO BERNARD5031 MAPLE RD.RICHMONDB1V7E 1G2CA ; HOFFER JOAQUIN ANDRES241 STRONG RD.ANMOREB1V3H 5E9CA ; TANG JESSICA KIT SUM379 COUNTY BLVD.THUNDER BAYO1P7A 7R6CA ; SIMON FRASER UNIV888 UNIVERSITY DRIVEINNOVATION OFFICE, MULTI-TENANT FACILITYBURNABYB1V5A 1S6CA ; SANDOVAL RODRIGO ANDRES2511 EAST 2ND AVENUEVANCOUVERB1V5M 1C7CA ; MEYYAPPAN RAMASAMY1381 HOWARD AVENUEBURNABYB1V5B 3S2CA

Inventor(s): (std): SANDOVAL RODRIGO ANDRES ; RODRIGO ANDRES SANDOVAL ; RAMASAMY MEYYAPPAN ; MEYYAPPAN RAMASAMY ; MARCELO BARU ; JOAQUIN ANDRES HOFFER ; JESSICA KIT SUM TANG ; TANG JESSICA KIT SUM ; HOFFER JOAQUIN ANDRES ; COQUINCO BERNARD ; BERNARD COQUINCO ; BARU MARCELO

Inventor(s): TANG JESSICA KIT SUM379 COUNTY BLVD.THUNDER BAYO1P7A 7R6CA ; BARU MARCELOUS ; COQUINCO BERNARD5031 MAPLE RD.RICHMONDB1V7E 1G2CA ; SANDOVAL RODRIGO ANDRES2511 EAST 2ND AVENUEVANCOUVERB1V5M 1C7CA ; HOFFER JOAQUIN ANDRES241 STRONG RD.ANMOREB1V3H 5E9CA ; MEYYAPPAN RAMASAMY1381 HOWARD AVENUEBURNABYB1V5B 3S2CA

Agent(s): FB RICE; FB RICE PTY LTD; ROBIC; INTES DIDIER GERARD ANDRE; ONDA MAKOTO; ONDA HIRONORI; BOOKOFF MCANDREWS PLLC; PARLEE MCLAWS LLP

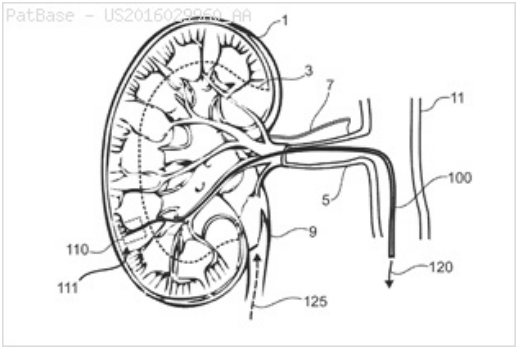
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX 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

39) Family number: 57492732 (US2016029960A)

Title: SYSTEMS AND METHODS FOR NEUROLOGICAL TRAFFIC AND/OR RECEPTOR FUNCTIONAL EVALUATION AND/OR MODIFICATION

Abstract: Systems and methods for controlled sympathectomy procedures for neuromodulation are disclosed. A system for controlled micro ablation procedures is disclosed. A guidewire including one or more sensors or electrodes for accessing and recording physiologic information from one or more anatomical sites within the parenchyma of an organ as part of a physiologic monitoring session, a diagnostic test, or a neuromodulation procedure is disclosed. A guidewire including one or more sensors and/or a means for energy delivery, for performing a neuromodulation procedure within a small vessel within a body is disclosed.

Classifications:
International (IPC 8-9): A61B18/14 A61B18/18 A61B5/00 A61B5/04 A61B5/0488 A61B5/11 A61F7/12 A61N1/00 A61N1/04 A61N1/05 A61N1/06 A61N1/36 (Advanced/Invention);
A61B18/00 A61B5/20 A61B90/00 (Advanced/Non-invention)
CPC: A61B5/6851 A61B5/0488 A61B5/11 A61B5/4875 A61B5/685 A61N1/36139 A61B5/04001 A61B18/1492 A61B2018/0016 A61B2018/0022 A61B2018/00404 A61B2018/00511 A61B2018/00839 A61B2018/00875 A61B2018/0088 A61N1/05 A61B5/201 A61B5/4041 A61B5/6852 A61B90/06 A61B2018/00267 A61B2018/00577 A61B2090/064
US: 600/300 600/301 600/309 600/373 600/546 600/554 600/587 604/173 606/41 607/62



Family:

Publication number	Publication date	Application number	Application date
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EP2978372 A4	20170301	EP20140775460	20140327
IN06495CN2015 A	20160701	IN2015CN06495	20151019
SG11201507936U A1	20151029	SG20151107936	20140327
US2016029960 AA	20160204	US20140780068	20140327
US2018249958 AA	20180906	US20180971459	20180504
US10004458 BB	20180626	US20140780068	20140327
WO14160832 A2	20141002	WO2014US31962	20140327
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Priority:

US20130805523P 20130327 US20130885540P 20131002 WO2014US31962 20140327
US20140780068 20140327 US20150780068 20150925 US20180971459 20180504

Probable Assignee: AUTONOMIX MEDICAL INC

Assignee(s): (std): AUTONOMIX MEDICAL INC ; TRICORD HOLDINGS L L C

Assignee(s): TRICORD HOLDINGS LLC ; SCHWARTZ ROBERT ; TOTH LANDY

Inventor(s): (std): SCHWARTZ ROBERT ; TOTH LANDY

Agent(s): SPRUSON AND FERGUSON; KIRBY EADES GALE BAKER; WILLIAMS DAVID JOHN; RYAN MASON AND LEWIS LLP; LEWIS WILLIAM E

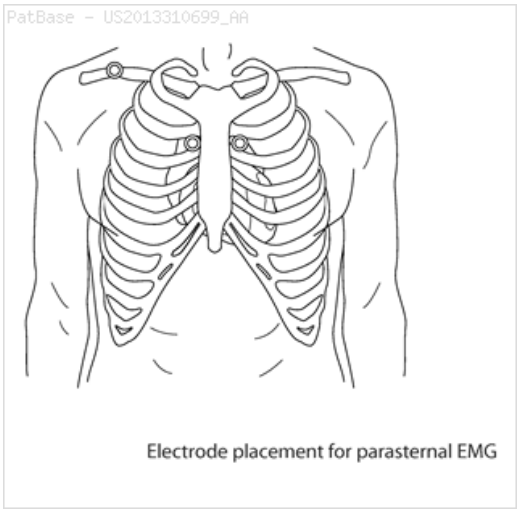
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW 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

40) Family number: 50074505 (US2013310699A)

Title: PATIENT MONITORING METHOD AND MONITORING DEVICE

Abstract: A method of monitoring a patient includes measuring neural respiratory drive using a monitoring device (10), repeating the measurement either continuously or at regular time intervals, and comparing the measurements obtained in order to predict treatment failure and/clinical deterioration and/or re-admission. In embodiments of the invention, the neural respiratory drive is measured by obtaining a measure of the second intercostal space parasternal electromyogram. A monitoring device (10) includes a signal input (20), a processing unit (30), and a output unit (50), and is arranged to measure the neural respiratory drive, store the measured value and compare it to a previously measured value for the neural respiratory drive.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/0245 A61B5/04 A61B5/0452 A61B5/0472 A61B5/0488 A61B5/08 (Advanced/Invention);
A61B5/00 A61B5/0245 A61B5/0452 A61B5/0472 (Advanced/Non-invention)
CPC: A61B5/04012 A61B5/0205 A61B5/0488 A61B5/0472 A61B5/7203 A61B5/0245 A61B5/04017 A61B5/0452 A61B5/08
US: 600/484 600/529



Family:

Publication number	Publication date	Application number	Application date
EP2760334 A1	20140806	EP20120781401	20120926
EP2760334 B1	20181121	EP20120781401	20120926
GB201116860 A0	20111109	GB20110016860	20110930
US2013310699 AA	20131121	US20120627383	20120926
US2018020928 AA	20180125	US20170640049	20170630
WO13045920 A1	20130404	WO2012GB52384	20120926

Priority:

GB20110016860 20110930 US20110541708P 20110930 US20120627383 20120926
WO2012GB52384 20120926 US20170640049 20170630

Probable Assignee: GUY S AND ST THOMAS NHS FOUNDATION TRUST

Assignee(s): (std): GUY S AND ST THOMAS NHS FOUND TRUST OF COUNTING HOUSE GUY S HOSPITAL ; GUY S AND ST THOMAS NHS FOUNDATION TRUST ; GUY S AND ST THOMAS NHS FOUNDATION TRUST OF COUNTING HOUSE GUY S HOSPITAL ; GUYS AND ST THOMAS NHS FOUND TRUST ; KING S COLLEGE LONDON ; KING S COLLEGE LONDON OF STRAND

Assignee(s): KINGS COLLEGE LONDON ; KING'S COLLEGE LONDON ; GUY'S AND ST THOMAS NHS FOUNDATION TRUST

Inventor(s): (std): FEDELE FIAMMETTA ; HART NICHOLAS ; MOXHAM JOHN

Agent(s): WILLIAMS POWELL; ELLIS KATHERINE

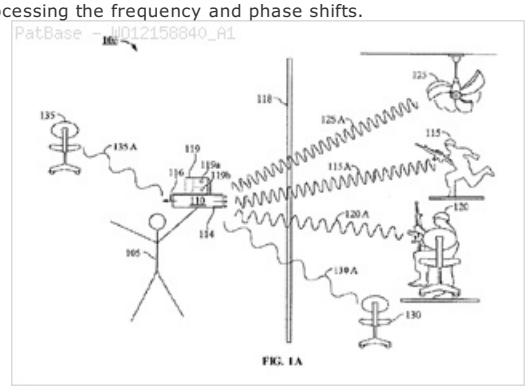
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX 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

41) Family number: 52405823 (WO12158840A1)

Title: PATIENT MONITORING AND SURVEILLANCE TAG

Abstract: Provided herein are methods, devices and systems for the remote monitoring and/or surveillance of a patient's location, position, movement, vital signs, biopotentials, or a combination thereof using transmission of stepped-frequency radar signals, detecting reflections of the transmitted signals and processing the frequency and phase shifts.

Classifications:
International (IPC 8-9): G08B1/08 (Advanced/Invention)
CPC: A61B5/002



Family:

Publication number	Publication date	Application number	Application date
WO12158840 A1	20121122	WO2012US38208	20120516

Priority:

US20110487182P 20110517

Probable Assignee: LIFEFLOW TECHNOLOGIES INC

Assignee(s): (std): BROWN DAVID ; LIFEFLOW TECHNOLOGIES INC ; NORDIN DAVID ; TERAN MANUEL

Inventor(s): (std): BROWN DAVID ; NORDIN DAVID ; TERAN MANUEL

Agent(s): HAVRANEK KRISTIN J

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 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

42) Family number: 43928180 (US2005081847A)

Title: AUTOMATIC ACTIVATION OF MEDICAL PROCESSES

Abstract: Systems and methods involve automatic activation, de-activation or modification of therapies or other medical processes based on brain state. A medical system includes a sensor system having one or more sensors configured to sense signals related to the brain state of the patient. A brain state analyzer detects various brain states, including sleep stage and/or brain seizures. A controller uses the brain state detection information to control a medical system configured to perform at least one respiratory or cardiac process. Methods involve sensing signals related to brain state and determining the brain state of a patient based on the sensed signals. At least one respiratory or cardiac medical process is controlled based on the patient's brain state.

Classifications:

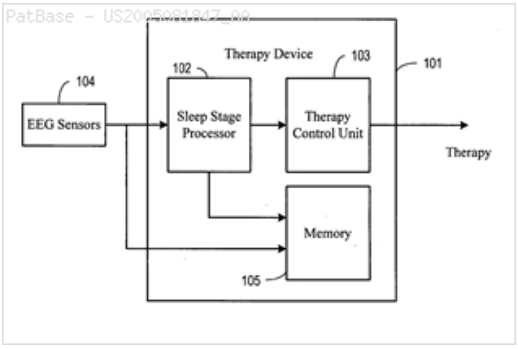
International (IPC 8-9): A61B5/04 A61B5/11 A61M15/00 A61M16/00 A61M16/10 A61N1/36 (Advanced/Invention);
A61B5/04 A61B5/11 A61M15/00 A61M16/00 A61M16/10 A61N1/36 (Core/Invention)

International (IPC 1-7): A61M15/00 A61M16/00

CPC: A61N1/3611 A61N1/36114 A61N1/36135 A61N1/3601 A61B5/04012 A61B5/1107 A61B5/4818 A61M16/10 A61M2016/0039 A61M2016/0042 A61M2205/3561 A61M2205/3584 A61M2230/04 A61M2230/10 A61M2230/63 A61N1/36514 A61B5/6869 A61B2505/09 A61B5/4094 A61M16/024

European: A61B5/04R A61B5/11J A61B5/48C8 A61M16/00K A61M16/10 A61N1/36 A61N1/365B A61N1/36C A61N1/36Z

US: 128/200.24 128/200.240P 128/204.23 128/204.230S 600/544 600/546 607/2 607/6 607/9 607/9S



Family:

Publication number	Publication date	Application number	Application date
US2005081847 AA	20050421	US20040922663	20040820
US7668591 BB	20100223	US20040922663	20040820

Priority:

US20030504381P 20030918 US20040922663 20040820

Probable Assignee: CARDIAC PACEMAKERS INC

Assignee(s): (std): CARDIAC PACEMAKERS INC

Assignee(s): HARTLEY JESSE W ; LEE KENT ; NI QUAN ; STAHMANN JEFFREY E

Inventor(s): (std): HARTLEY JESSE W ; LEE KENT ; STAHMANN JEFFREY E ; NI QUAN

Inventor(s): STAHMANN JEFFREY ; HARTLEY JESSE

Agent(s): CRAWFORD MAUNU PLLC; HOLLINGSWORTH AND FUNK LLC

43) Family number: 41982564 (US2005001727A)

Title: COMMUNICATION APPARATUS AND COMMUNICATION METHOD

Abstract: By providing bio-information and/or environment information between a pair of users, it becomes possible for the users to understand the situation or the feeling of each other more deeply and earlier. A communication system for exchanging the situations and the feelings of both the users is provided without performing optional communication operations, such as a telephone call and an e-mail. The condition or the situation on the transmitter side is to be judged and to be notified to the receiver side by inputting bio-information such as breathing, pulse-beats and heartbeats or environment information such as weather, date and hour, ambient temperature, or alternatively, by comparing, synchronizing and/or relating the bio-information and/or the environment information at present with respect to the bio-information and/or the environment information in the past. With respect to the situation of the receiver side, it is also notified similarly to the transmitter side.

Classifications:

International (IPC 8-9): A61B5/00 G06Q50/22 G06Q99/00 G08B1/08 G08B21/04 G08B25/01 G08C19/00 H04M1/725 H04M11/00 H04M3/42 H04W4/00 (Advanced/Invention);
G06Q50/00 H04M1/725 H04Q7/24 (Advanced/Non-invention)

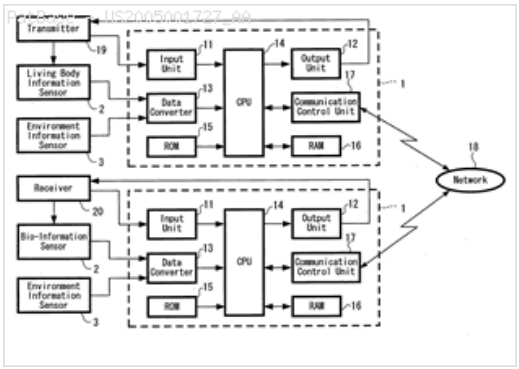
International (IPC 1-7): A61B5/00 A61B5/01 A61B5/02 G06F17/60 G08B19/00 G08B25/01 G08C19/00 H04M1/725 H04M3/42

CPC: Y10S128/903 G08B21/0453 A61B5/0002 A61B5/021 A61B5/02438 A61B5/0476 A61B2560/0242 G08B21/0211 G08B2001/085 H04M1/72519 H04M1/72538 H04M2250/12

European: A61B5/00B G08B21/02A1C G08B21/04S2 K61B5/021 K61B5/024F K61B5/0476 K61B560/02F S08B1/08P T04M1/725F T04M1/725F1E2 T04M250/12

US: 128/903 128/903S 128/904 128/904S 340/539.12 340/539.120P

340/539.22 340/539.220S 340/539.26 340/539.260S 340/573.1 340/573.100P 600/300 600/300S



Family:

Publication number	Publication date	Application number	Application date
AT460720 E	20100315	AT20040253637T	20040617
AU2004202542 AA	20050120	AU20040202542	20040609
AU2004202542 BB	20100722	AU20040202542	20040609
CA2472668 AA	20041230	CA20042472668	20040628
CA2472668 C	20130423	CA20042472668	20040628
CN100565573 C	20091202	CN200410061779	20040630
CN1577354 A	20050209	CN200410061779	20040630
DE602004025880 D1	20100422	DE200460025880T	20040617
EP1494190 A1	20050105	EP20040253637	20040617
EP1494190 B1	20100310	EP20040253637	20040617
JP2005026861 A2	20050127	JP20030188421	20030630
JP3979351 B2	20070919	JP20030188421	20030630
KR101033037 B1	20110513	KR20040045583	20040618
KR20050005766 A	20050114	KR20040045583	20040618
MY135603 A	20080530	MY20040002553	20040629
SG144724 A1	20080828	SG20040038121	20040618
US2005001727 AA	20050106	US20040863440	20040608
US2006197657 AA	20060907	US20060409135	20060421
US7199708 BB	20070403	US20040863440	20040608
US7800493 BB	20100921	US20060409135	20060421

Priority:

JP20030188421 20030630 US20040863440 20040608 CA20042472668 20040628 US20060409135 20060421

Probable Assignee: SONY CORP

Assignee(s): (std): SONY CORP

Assignee(s): TAKAI MOTOYUKI ; TERAUCHI TOSHIRO ; INOUE AKIKO ; INOUE MAKOTO ; MAKINO KENICHI ; MIYAJIMA YASUSHI ; SAKO YOICHIRO ; SHIRAI KATSUYA

Inventor(s): (std): YOICHIRO SAKO ; YASUSHI MIYAJIMA ; TOSHIRO TERAUCHI ; TERAUCHI TOSHIRO ; TAKAI MOTOYUKI ; SHIRAI KATSUYA ; SAKO YOICHIRO ; MOTOYUKI TAKAI ; MIYAJIMA YASUSHI ; MAKOTO INOUE ; MAKINO KENICHI ; KENICHI MAKINO ; KATSUYA SHIRAI ; JOHN DONDERO ; INOUE MAKOTO ; INOUE AKIKO ; AKIKO INOUE

Inventor(s): DONDERO JOHN

Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; NICHOLLS MICHAEL JOHN; JAY H MAIOLI COOPER AND DUNHAM LLP; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

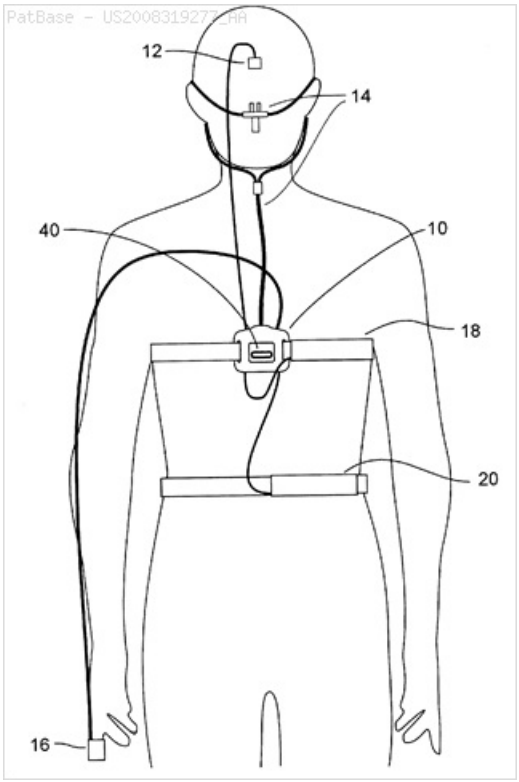
44) Family number: 34022342 (US2008319277A)

Title: SLEEP DISORDER MONITORING AND DIAGNOSTIC SYSTEM

Abstract: A portable or wearable system for monitoring and diagnosing sleep disorders, such as sleep apnea, and an associated method of monitoring and diagnosis. The device which can be used for the detection, assessment, diagnosis and pre-diagnosis (screening) of sleep apnea, as well as other sleep-related disorders associated with sleep apnea, such as hypopnea, snoring and abnormal cardiac rhythms. The device preferably samples, stores and records sound at a frequency of 1000 Hz and higher to allow for an accurate analysis of the subject's condition to be carried out. Memory is provided in the device to store at least six hours of continuous data. Data collected by the device can be downloaded to an external computing device for later use and analysis by a medical professional.

Classifications:

International (IPC 8-9): A61B19/00 A61B5/00 A61B5/04 (Advanced/Invention);
A61B19/00 A61B5/00 A61B5/04 (Core/Invention)
CPC: A61B2090/0803 A61B7/003 A61B5/08 A61B5/4818
European: A61B5/08 A61B5/48C8 A61B7/00D K61B19/48D
US: 600/301 600/301P



Family:

Publication number	Publication date	Application number	Application date
CA2611762 AA	20071211	CA20062611762	20060612
US2008319277 AA	20081225	US20060572518	20060612
WO06133548 A1	20061221	WO2006CA00955	20060612

Priority:

US20050689535P 20050613 US20060572518 20060612 WO2006CA00955 20060612

Probable Assignee: BRAEBON MEDICAL CORP

Assignee(s): (std)**:** BRADLEY DONALD CARMON ; BRAEBON MEDICAL CORP

Inventor(s): (std)**:** BRADLEY DONALD CARMON

Agent(s): BORDEN LADNER GERVAIS LLP; BORDEN LADNER GERVAIS LLP ANNE KINSMAN

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

45) Family number: 55977153 (US2015250445A)

Title: MULTISENSOR WIRELESS ABDOMINAL MONITORING APPARATUS, SYSTEMS, AND METHODS

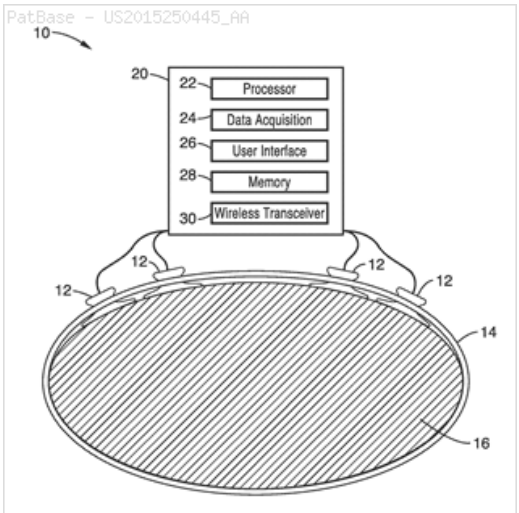
Abstract: A multi-sensor wireless abdominal monitoring system comprising a low-profile belt that fits around the abdomen and is embedded with specialized wireless sensors. The system is configured to continuously monitor a range of gastrointestinal and abdominal wall functions. The system wirelessly transmits data to an external device, such as a smartphone or computer for storage and download to a central server. The acquired data may be monitored remotely through specialized software that generates clinically interpretable information presented through a graphical user interface. The device provides data that are immediately actionable for a wide range of inpatients and outpatients with high prevalence disorders in varied clinical settings.

Classifications:

International (IPC 8-9): A61B A61B5/00 A61B5/01 A61B5/0488 A61B5/053 A61B5/08 A61B5/107 A61B5/113 A61B7/00 A61B7/04 A61B8/00 G06Q50/24 G16H10/60 (Advanced/Invention);
A61B (Subclass/Invention)

CPC: A61B5/0015 A61B5/107 A61B5/1135 A61B5/6831 A61B5/7264 A61B5/7275 A61B5/74 A61B7/04 A61B5/0488 A61B5/0816 A61B5/1072 A61B5/113 A61B5/0002 A61B7/008 A61B5/04884 A61B5/0533 A61B5/42 A61B5/6823

US: 600/300 600/301 600/528 600/534 600/546 600/547 600/586 600/587 600/595



Family:

Publication number	Publication date	Application number	Application date
CN104736043 A	20150624	CN201380049635	20130830
DE602013024933 D1	20170921	DE201360024933T	20130830
EP2914165 A1	20150909	EP20130836008	20130830
EP2914165 A4	20160330	EP20130836008	20130830
EP2914165 B1	20170809	EP20130836008	20130830
EP3254615 A1	20171213	EP20170180681	20130830
ES2645646 T3	20171207	ES20130836008T	20130830
HK1208612 A1	20160311	HK20150109374	20150924
JP2015532841 T2	20151116	JP20150531137T	20130830
US2015250445 AA	20150910	US20150639023	20150304
WO14039404 A1	20140313	WO2013US57680	20130830

Priority:

US20120697951P 20120907 EP20130836008 20130830 WO2013US57680 20130830 US20150639023 20150304

Probable Assignee: THE UNIV OF CALIFORNIA

Assignee(s): (std): US DEPT VETERANS AFFAIRS ; UNIV CALIFORNIA ; US DEPT OF VETERANS AFFAIR ; US GOV REPRESENTED BY DEPT OF VETERANS AFFAIRS AS ; US GOV REPRESENTED BY DEPARTMENT OF VETERANS AFFAIRS AS

Assignee(s): THE UNIV OF CALIFORNIA OAKLAND ; REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS AS US GOV ; REPRESENTED BY DEPARTMENT OF VETERANS AFFAIRS AS US GOV ; REPRESENTED BY DEPARTMENT OF VETERAN S AFFAIRES WASHINGTON AS US GOV ; REPRESENTED BY DEPARTMENT OF VETERANS AFFAIR AS US GOV ; THE UNIV OF CALIFORNIA

Inventor(s): (std): KAISER WILLIAM ; SPIEGEL BRENNAN

Inventor(s): SPIEGEL BRENNAN LOS ANGELES ; KAISER WILLIAM LOS ANGELES

Agent(s): FARRINGTON GRAHAM; RICHARDS JOHN; ELZABURU SLP ELZABURU SLP; MELVIN LI INTELLECTUAL PROPERTY LTD; MORISHITA SAKAKI; OBANION JOHN

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 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

46) Family number: 28276537 (US2002173729A)

Title: CLOSED LOOP DRUG ADMINISTRATION METHOD AND APPARATUS USING EEG COMPLEXITY FOR CONTROL PURPOSES

Abstract: A closed loop method and apparatus for controlling the administration of an hypnotic drug to a patient. Electroencephalographic (EEG) signal data is obtained from the patient. At least one measure of the complexity of the EEG signal data is derived from the data. The complexity measure may comprise the entropy of the EEG signal data. The EEG signal data complexity measure is used as the feedback signal in a control loop for an anesthetic delivery unit to control hypnotic drug administration to the patient in a manner that provides the desired hypnotic level in the patient. An EEG signal complexity measure obtained from the cerebral activity of the patient can be advantageously used in conjunction with a measure of patient electromyographic (EMG) activity to improve the response time of hypnotic level determination and of the feedback control of drug administration. A pharmacological transfer function may be used, along with pharmacokinetic and pharmacodynamic models.

Classifications:
International (IPC 8-9): A61B5/04 A61B5/0476 A61B5/048 A61B5/0488 A61B5/11 A61M16/18 A61M21/02 A61M5/168 A61M5/172 (Advanced/Invention); A61M16/10 (Advanced/Non-invention)
International (IPC 1-7): A61B5/04 A61B5/11 A61M21/02 A61M31/00 A61M5/168
CPC: A61B5/6814 A61B2505/05 A61M16/01 A61B5/0476 A61B5/048 A61B5/0488 A61B5/1106 A61B5/4821 A61M5/1723 A61M16/18 A61M2016/1035 A61M2202/0241 A61M2230/04 A61M2230/10 A61M2230/205 A61M2230/30 A61M2230/437 A61M2230/60
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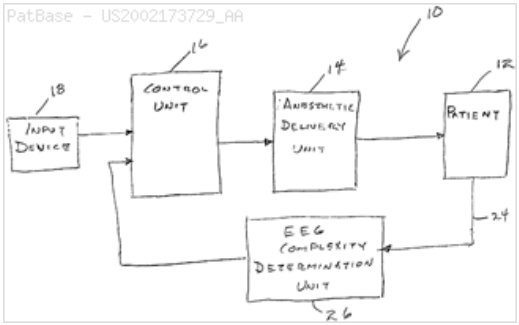
US: 600/544 600/544P 600/545 600/545S 600/546 604/65 604/65S 604/66 604/66S 604/67 604/67S



Family:

Publication number	Publication date	Application number	Application date
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JP2004527328 T2	20040909	JP20020590824T	20020513
JP4309136 B2	20090805	JP20020590824T	20020513
US2002173729 AA	20021121	US20010861878	20010521
US6631291 BB	20031007	US20010861878	20010521
USRE41291 E	20100427	US20050232411	20050921
WO02094099 A1	20021128	WO2002IB01675	20020513

Priority:

US20010291873P 20010518 US20010861878 20010521 WO2002IB01675 20020513 US20050232411 20050921

Probable Assignee: INSTRUMENTARIUM CORP

Assignee(s): (std): COHEN LAROQUE EMMANUEL S ; GE HEALTHCARE FINLAND OY ; INSTRUMENTARIUM CORP ; VIERTIO OJA HANNA E

Assignee(s): VIERTIO OJA HANNA

Inventor(s): (std): COHEN LAROQUE EMMANUEL S ; VIERTIO OJA HANNA ; VIERTIO OJA HANNA E

Agent(s): ANDRUS SCEALES STARKE AND SAWALL LLP

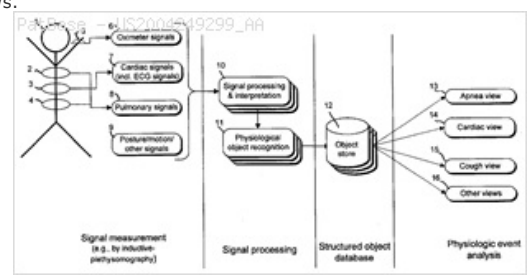
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

47) Family number: 31385253 (US2004249299A)

Title: METHODS AND SYSTEMS FOR ANALYSIS OF PHYSIOLOGICAL SIGNALS

Abstract: Systems and methods are provided for processing and analyzing signals reflecting, physiologic processes and events in a monitored subject, especially cardio-pulmonary signals. The input signals are analyzed by in a physiological domain by creating structured data representing the physiological events reflected in the signals. Preferably, first, primitive event objects are created representing physiologically-significant portions of these input signals; second, the primitive event objects are grouped into primary event objects representing actual physiologic processes and events. Next, all objects are stored in databases, and organized in containers for efficient searching. Information may be retrieved by creating view objects which associate physiologic event objects having selected properties specified directly in physiological terms. This invention includes methods for performing the above analysis, systems and program products for carrying out these methods, and databases configured with the stored objects and views.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/02 A61B5/0205 A61B5/04 A61B5/0452 A61B5/08 G06F19/00 (Advanced/Invention);
A61B5/00 A61B5/02 A61B5/04 A61B5/0452 A61B5/08 A61B5/11 (Advanced/Non-invention);
A61B5/00 A61B5/0205 A61B5/0452 (Core/Invention);
A61B5/00 A61B5/02 A61B5/04 A61B5/0452 A61B5/08 A61B5/11 (Core/Non-invention)
International (IPC 1-7): A61B1/00 A61B5/00 A61B5/02 A61B5/04 A61B5/08
CPC: A61B5/0205 A61B5/0452 A61B5/0809 A61B5/11 A61B5/1455 A61B5/4818
European: A61B5/0205 A61B5/48C8 K61B5/0452 K61B5/08J K61B5/11 K61B5/1455
US: 600/323 600/323S 600/509 600/509S 600/529 600/529P



Family:

Publication number	Publication date	Application number	Application date
AU2004245085 AA	20041216	AU20040245085	20040604
CA2523549 AA	20051024	CA20042523549	20040604
EP1631184 A2	20060308	EP20040754497	20040604
US2004249299 AA	20041209	US20030457097	20030606
WO04107962 A2	20041216	WO2004US17899	20040604
WO04107962 A3	20061228	WO2004US17899	20040604

Priority:

US20030457097 20030606 WO2004US17899 20040604

Probable Assignee: VIVOMETRICS INC

Assignee(s): (std): COBB JEFFREY LANE ; VIVOMETRICS INC

Inventor(s): (std): COBB JEFFREY LANE

Inventor(s): JEFFREY LANE COBB

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; GOWLING LAFLEUR HENDERSON LLP

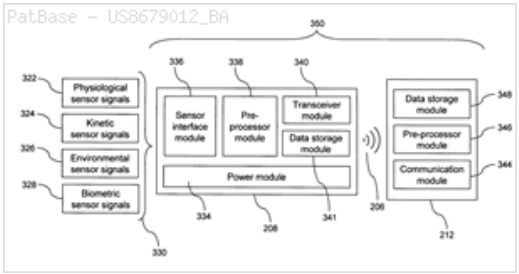
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

48) Family number: 56024117 (US8679012B)

Title: MEDICAL DEVICE AND METHOD WITH IMPROVED BIOMETRIC VERIFICATION

Abstract: The present invention is both a device and a method for verifying a subject's identity while using a medical device or undergoing a medical diagnostic or therapeutic procedure, particularly at home or at a remote location. The method and device can be used for inpatient and remote sleep and signal analysis with biometric identification. The present invention is further related to the devices and sensors used in executing the method, and includes various embodiments of a method of inpatient and remote sleep analysis.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/0496 A61B5/1172 A61B5/1455 G06K9/00 (Advanced/Invention);
A61B5/087 (Advanced/Non-invention)
CPC: A61B5/0002 A61B5/1455 A61B5/4806 A61B5/6826 G06K9/00885 A61B5/0006 A61B5/0205 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/0496 A61B5/14551 A61B5/4809 A61B5/4815 A61B5/087 A61B5/1172 A61B5/0022 G16H40/67 G06F19/00
US: 382/115 600/301



Family:

Publication number	Publication date	Application number	Application date

US8679012 BA	20140325	US20080228461	20080813
US9943252 BA	20180417	US20140173897	20140206

Priority:

US20080228461 20080813 US20140173897 20140206

Probable Assignee: CLEVELAND MEDICAL DEVICES INC

Assignee(s): (std): CLEVELAND MED DEVICES INC ; KAYYALI HANI

Assignee(s): CLEVELAND MEDICAL DEVICES INC ; DIRECTOR OF OHIO DEVELOPMENT SERVICES AGENCY

Inventor(s): (std): KAYYALI HANI

Agent(s): BRIAN; MATTHEW

49) Family number: 57588369 (US2016058613A)

Title: DETECTING AND RESPONDING TO PRESHIVERING

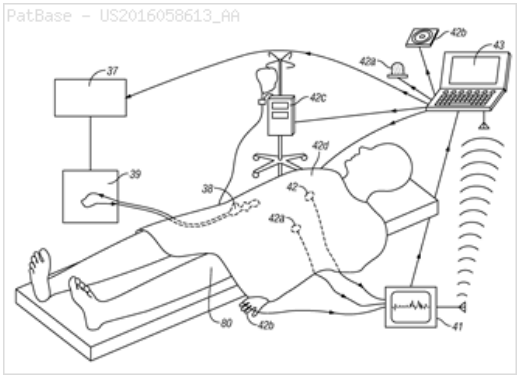
Abstract: A method of reducing the likelihood of shivering comprises monitoring at least one physiological characteristic in a human or animal subject to detect preshivering and acting to reduce the likelihood of shivering when preshivering is detected.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/02 A61B5/0205 A61B5/0488 A61F7/00 A61F7/10 A61F7/12 G06F19/00 (Advanced/Invention)

CPC: A61F2007/0093 A61N1/36003 A61N1/36014 A61N1/36017 A61N1/36025 A61N2/006 A61N2/02 A61B5/024 A61B5/037 A61B5/04017 A61B5/04018 A61B5/0816 A61B5/1107 A61B5/1126 A61B5/14542 A61B5/4052 A61B5/4866 A61B5/6823 A61B5/6824 A61F7/10 A61B5/746 A61F7/12 A61B5/0488 A61B5/4836 A61B5/725 A61F2007/0054 A61F2007/0056 A61F2007/126 A61B5/04001 A61B5/1101

US: 607/105



Family:

Publication number	Publication date	Application number	Application date
EP2983629 A2	20160217	EP20140783023	20140408
EP2983629 A4	20161228	EP20140783023	20140408
US2016058613 AA	20160303	US20140783912	20140408
WO14168952 A2	20141016	WO2014US33339	20140408
WO14168952 A3	20150108	WO2014US33339	20140408

Priority:

US20130810508P 20130410 US20140783912 20140408 WO2014US33339 20140408

Probable Assignee: ZOLL CIRCULATION INC

Assignee(s): (std): FREEMAN GARY A ; HELKOWSKI RICHARD A ; PALAZZOLO JAMES ; ZOLL CIRCULATION INC

Inventor(s): (std): PALAZZOLO JAMES ; HELKOWSKI RICHARD A ; FREEMAN GARY A

Agent(s): MAUGHAN SOPHIE LOUISE; BUYAN ROBERT 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

50) Family number: 53736988 (US2014275857A)

Title: METABOLIC AND CARDIOPULMONARY MONITOR

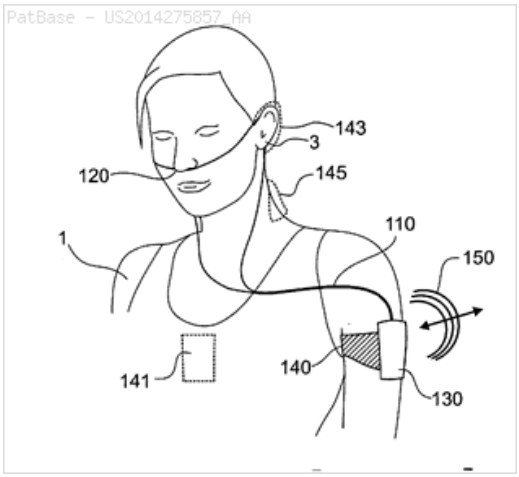
Abstract: Systems and methods for monitoring and/or assessing metabolic and/or cardiopulmonary parameters of a subject are disclosed. Systems and methods for high speed monitoring of metabolic parameters of a subject in a substantially unrestricted setting are disclosed. Further disclosed are wearable systems and methods for substantially unobtrusive monitoring of a breath stream from a subject. Also disclosed are wearable systems and methods for real-time monitoring of the respiratory function and/or one or more disease states of a subject. Data systems to coordinate simultaneous monitoring of one or more metabolic and/or cardiopulmonary parameters of a plurality of subjects are also disclosed.

Classifications:

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

CPC: A61B5/02055 A61B5/1118 A61B5/1135 A61B5/7415 A61B2560/0443 A61M16/0672 A61M2016/102 A61M2016/1025 A61M2202/0208 A61M2210/0618 A61M2210/0625 A61M2230/43 A61B5/6803 A61B5/6823 A61B5/7282 A61B5/742 A61B5/087 A61B5/682 A61B5/083 A61B5/097 A61M16/1065 A61M2205/7536 A61M16/0841 A61M16/085 A61M2016/0027 A61M16/0051 A61M16/021 G06F19/00

US: 600/301 600/484 600/531



Family:

Publication number	Publication date	Application number	Application date
EP2773263 A1	20140910	EP20120848306	20121105
EP2773263 A4	20151021	EP20120848306	20121105
EP2773263 A4	20151209	EP20120848306	20121105
US2014275857 AA	20140918	US20120356083	20121105
WO13070545 A1	20130516	WO2012US63544	20121105

Priority:

US20110556502P 20111107 US20120356083 20121105 WO2012US63544 20121105

Probable Assignee: LIFELENS TECHNOLOGIES LLC

Assignee(s): (std)**:** MARTIN ROY ; SCHWARTZ ROBERT ; TOTH LANDY ; TOTH LANDY AARON

Assignee(s): TRICORD HOLDINGS LLC ; TRICORD HOLDINGS II LLC ; LIFELENS TECHNOLOGIES LLC

Inventor(s): (std)**:** MARTIN ROY ; SCHWARTZ ROBERT ; TOTH LANDY ; TOTH LANDY AARON

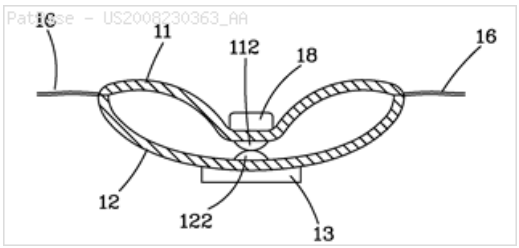
Agent(s): WILLIAMS DAVID JOHN; LEWIS WILLIAM E

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

51) Family number: 34352868 (US2008230363A)

Title: ELECTRONIC DEVICE AND METHOD OF USING THE SAME

Abstract: An electronic device which includes a resilient piece, base plate and electronic source. The upper conductor is located on the resilient piece; the base plate is connected to the resilient piece, with a space between the two. The lower conductor is located on the base plate, and there is a crevice between the lower conductor and the upper conductor. The electronic source electrically connected to the upper conductor and the lower conductor. The sensor device is located on the base plate. Utilizing this structure, the electronic device can, based on the user's needs, perform testing of the subject's physiological status or test a specific site that is pressed, be used as assist for medical equipment, exercise equipment or communications facilities.



Classifications:
International (IPC 8-9)**:** A61B5/00 A61B5/01 A61B5/02 A61B5/021 A61B5/024 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/11 A61B5/1455 A61B6/00 A61B7/00 A61B8/00 H01H1/24 H01H13/52 H01H13/702 H01H13/704 H01H3/02 H01H3/12 H01H3/14 (Advanced/Invention); A61B5/024 (Advanced/Non-invention); H01H13/70 H01H3/02 (Core/Invention)
CPC: A61B5/00 H01H2205/004 A61B5/6805 A61B5/0002 A61B5/024 A61B5/6804 H01H3/14 H01H13/702 H01H2203/0085
European: A61B5/00 A61B5/68B1D A61B5/68B1D1 H01H3/14 K61B5/00B K61B5/024 T01H13/702 T01H203/008B T01H205/004
US: 1/1 200/293 200/293S 200/512 200/85.00R 200/85R 600/307 600/309 600/322 600/407 600/437 600/481 600/509 600/528 600/544 600/546 600/549 600/586 600/595

Family:

Publication number	Publication date	Application number	Application date
CN101272728 A	20080924	CN200580051629	20050921
CN101272728 B	20100929	CN200580051629	20050921
DE602005035691 D1	20121011	DE200560035691T	20050921
EP1946696 A1	20080723	EP20050792188	20050921
EP1946696 A4	20090812	EP20050792188	20050921
EP1946696 B1	20120815	EP20050792188	20050921
JP2009508601 T2	20090305	JP20080531504T	20050921
JP4779017 B2	20110921	JP20080531504	20050921
US2008230363 AA	20080925	US20080053553	20080322
US2012238845 AA	20120920	US20120487655	20120604
US8193465 BB	20120605	US20080053553	20080322
US9161721 BB	20151020	US20120487655	20120604
WO07033520 A1	20070329	WO2005CN01520	20050921

Priority:

EP20050792188 20050921 WO2005CN01520 20050921 US20080053553 20080322 US20120487655 20120604

Probable Assignee: MING YOUNG BIOMEDICAL CORP

Assignee(s): (std): YANG CHANG MING ; YANG CHING WEN ; YANG HAO ; YANG TZU LIN ; ZHANGMIN YANG

Assignee(s): MING YOUNG BIOMEDICAL CORP ; YANG ZHANGMIN

Inventor(s): (std): YANG CHING WEN ; YANG HAO ; YANG TZU LIN ; ZHANGMIN YANG ; YANG CHANG MING

Inventor(s): YANG ZHANGMIN

Agent(s): LEINWEBER AND ZIMMERMANN; WYTENBURG WILHELMUS JOHANNES ET AL; WYTENBURG WILHELMUS JOHANNES; THE HARRIS FIRM; HARRIS FIRM; OSHA • LIANG LLP; OSHA LIANG LLP

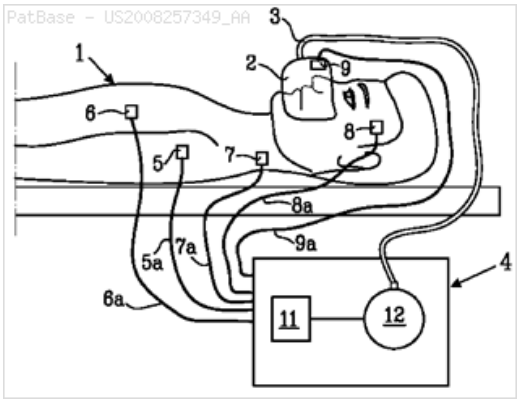
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH 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

52) Family number: 32396801 (US2008257349A)

Title: MULTILEVEL VENTILATOR

Abstract: A method and apparatus for detecting breathing disorders and controlling a breathing ventilator using an artificial neural network working on signals indicative of a patient's physiological status. Preferably the artificial neural network works on a signal indicative of the pressure or flow of supplied breathing gas divided into two or more intervals (401, 402, 403, 404) indicative of patient (1) breathing cycle phases.

Classifications:
International (IPC 8-9): A61B5/0205 A61B5/08 A61B5/087 A61M16/00 G05B13/02 G06F19/00 G06N3/02 (Advanced/Invention); A61B5/0402 A61B5/0476 A61B5/0488 A61B5/0496 A61B5/083 (Advanced/Non-invention); A61B (Subclass/Invention)
International (IPC 1-7): A61B5/08 G06F19/00 G06N3/02
CPC: A61M16/026 G16H50/20 Y02A90/24 Y02A90/26 A61B5/02055 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/0496 A61B5/083 A61B5/087 A61B5/4818 A61B5/7264 A61M2205/3375 A61M2205/3553 A61M2205/3584 A61M2205/52 A61M2230/10 A61M2230/18 A61M2230/205 A61M2230/30 A61M2230/432 A61M2230/435 G06F19/3418 G06F19/3481 G06F19/00 G16H40/63
European: A61B5/0205B A61B5/087 A61B5/48C8 A61M16/00K G06F19/34K K61B5/0402 K61B5/0476 K61B5/0488 K61B5/0496 K61B5/083 K61B5/72K12 K61M205/33M2 K61M205/33U K61M205/35R1 K61M205/35T1 K61M205/52 K61M230/10 K61M230/18 K61M230/20D K61M230/30 K61M230/43C K61M230/43D S06F19/34C S06F19/34N
US: 128/204.23 128/204.230P 706/23 706/23S



Family:

Publication number	Publication date	Application number	Application date
DE602005042666 D1	20140327	DE200560042666T	20050510
EP1750581 A1	20070214	EP20050740582	20050510
EP1750581 B1	20140212	EP20050740582	20050510
SE200401208 A0	20040510	SE20040001208	20040510
US2008257349 AA	20081023	US20050568920	20050510
WO05107589 A1	20051117	WO2005SE00679	20050510

Priority:

SE20040001208 20040510 EP20050740582 20050510 WO2005SE00679 20050510

Probable Assignee: GENERAL ELECTRIC CO

Assignee(s): (std): GROTE LUTGER ; HEDNER JAN ; KNAGENHJELM PETTER ; TIEDJE MIKAEL ; BREAS MEDICAL AB

Assignee(s): GENERAL ELECTRIC CO

Inventor(s): (std): GROTE LUTGER ; HEDNER JAN ; KNAGENHJELM PETTER ; TIEDJE MIKAEL

Inventor(s): PETTER KNAGENHJELM ; MIKAEL TIEDJE ; LUTGER GROTE ; JAN HEDNER

Agent(s): VALEA AB; RAYMOND R MOSER JR ESQ MOSER IP LAW GROUP

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 LI LK LR LS LT LU LV 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

53) Family number: 32536852 (US2006107954A)

Title: APPARATUS AND METHOD FOR IDENTIFYING SLEEP APNEA

Abstract: A method is provided for identifying a disease of a patient. The method includes collecting data of at least one cardio-respiratory function of the patient over time, eliminating artifacts from the collected data to create a new data record, constructing a phase-space from the new data record, and constructing a hypercube covering the phase-space. The method further includes calculating threshold criteria for quantifying dispersion characteristics of an attractor of the phase-space and determining the patient's tendency towards the disease based on the threshold criteria.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/02 A61B5/08 A61M16/00 A62B7/00 (Advanced/Invention); A61M16/00 A62B7/00 (Core/Invention)
CPC: A61B5/0205 A61B5/024 A61B5/04017 A61B5/0402

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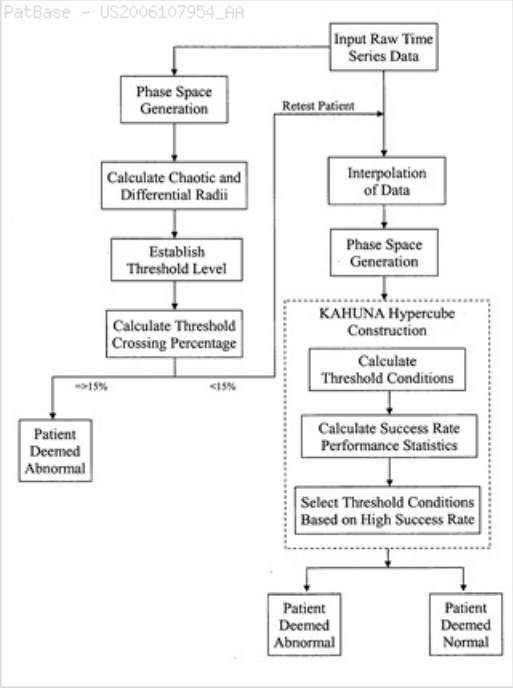
European: A61B5/0205 A61B5/087 A61B5/48C8 A61B5/68B2B4 K61B5/024 K61B5/0402 K61B5/0476 K61B5/0488 K61B5/04R4 K61B5/72B
US: 128/204.21 128/204.210S 128/204.23 128/204.230P 600/300 600/508 600/529



Family:

Publication number	Publication date	Application number	Application date
US2006107954 AA	20060525	US20050151685	20050613
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WO06002056 A2	20060105	WO2005US21000	20050614
WO06002056 A3	20070215	WO2005US21000	20050614

Priority:
US20040579976P 20040614 US20050151685 20050613

Probable Assignee: VANGUARD TECHNOLOGIES LLC

Assignee(s): (std): DODENHOFF TRACEY A ; HALL JEFFREY S ; KATZ RICHARD A ; KATZ RICHARD A C O VANGUARD TE ; NUTTALL ALBERT H ; VANGUARD TECHNOLOGIES LLC ; SAWYER DOUGLAS M ; SAWYER DOUGLAS

Assignee(s): KATZ RICHARD A C O VANGUARD TECHNOLOGIES LLC

Inventor(s): (std): DODENHOFF TRACEY A ; HALL JEFFREY S ; KATZ RICHARD A ; KATZ RICHARD A C O VANGUARD TE ; NUTTALL ALBERT H ; SAWYER DOUGLAS ; SAWYER DOUGLAS M

Inventor(s): DODENHOFF TRACEY ; KATZ RICHARD A C O VANGUARD TECHNOLOGIES LLC ; NUTTALL ALBERT ; KATZ RICHARD ; HALL JEFFREY

Agent(s): PAUL D BIANCO FLEIT KAIN GIBBONS GUTMAN BONGINI AND BIANCO PL; PAUL D; FLEIT KAIN GIBBONS GUTMAN BONGINI AND BIANCO; MARTIN

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 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

54) Family number: 53181229 (US2015070172A)

Title: METHOD AND ARRANGEMENT FOR EVALUATING ACTIVITY AND FUNCTIONAL ABILITY BASED ON INTERACTION AND PHYSIOLOGICAL SIGNALS

Abstract: A method is for monitoring interaction between a person and his companion and pet. The method can be realized via a data transfer network, a monitoring arrangement used in the method, a server and a computer program to be used in the monitoring arrangements, which are included in the monitoring arrangement. With the method and monitoring arrangement, an interactive event between the companion and person and/or pet can be visualized on a data processing device for a selected time period. The data processing device can be situated in a different location than the persons and pet being monitored. In the method, the latest 3D location measuring data and physiological measuring data of the pet, companion and person are compared to long-term average data. The physiological measuring data is received from wireless monitoring devices carried by the pet, companion and person.
Classifications:
International (IPC 8-9): A61B5/00 A61B5/02 A61B5/0205 A61B5/11 A61B5/16 G08B21/04 G08B23/00 (Advanced/Invention);
A61B5/00 (Advanced/Non-invention)
CPC: A61B5/1112 A61B5/0002 A61B5/002 A61B5/0024 G08B21/0415 A61B5/0022 A61B5/0205 A61B5/1108 A61B5/1113 A61B5/4803 A61B5/7264 A61B2503/40 A61B2562/0219 G06F19/00
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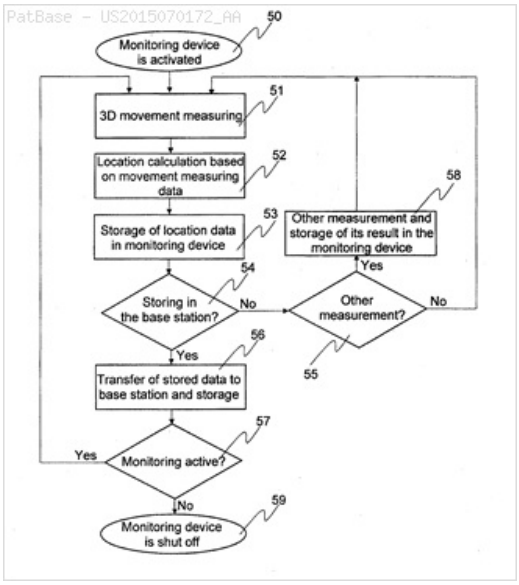


Family:

Publication number	Publication date	Application number	Application date
GB201405423 A0	20140507	GB20140005423	20110902
GB2509274 A1	20140625	GB20140005423	20110902
GB2509274 B2	20171108	GB20140005423	20110902
US2015070172 AA	20150312	US20110240568	20110902
US9275534 BB	20160301	US20110240568	20110902
WO13030428 A1	20130307	WO2011FI50759	20110902

Priority:

WO2011FI50759 20110902

Probable Assignee: DOMUSET OY

Assignee(s): (std)**:** ALASAARELA ESKO ; DOMUSEL OY ; DOMUSET OY

Inventor(s): (std)**:** ALASAARELA ESKO ; ESKO ALASAARELA

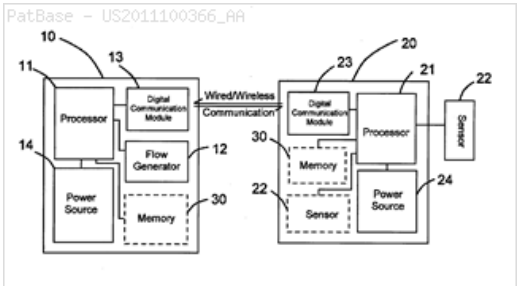
Agent(s): ANDRUS INTELLECTUAL PROPERTY LAW LLP; BERGGREN OY AB

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 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

55) Family number: 44211899 (US2011100366A)

Title: EXTENDABLE AIR DELIVERY SYSTEM AND AIR DELIVERY METHOD

Abstract: An extendable air delivery system and a method for deciding a delivery mode therein are provided. The extendable air delivery system includes a PAP device supply a breathable pressured air to a patient and a sensing device to acquire physiological information from the patient by at least a sensor. The method includes steps of initiating the PAP device, detecting if the sensing device is connected with the PAP device, and if negative, the PAP device enters a preset independent operation mode and performs a preloaded first air delivery behavior for providing the breathable air to the patient, or if positive, the PAP device enters a common operation mode. During the common operation mode, based on the acquired physiological information, the sensing device generates a signal/data for sending to the PAP device, and the signal/data involves in deciding a second air delivery behavior for providing the patient the breathable air. And, the above steps are repeated during the air delivery.



Classifications:

International (IPC 8-9): A61B5/0205 A61B5/08 A61B5/103 A61B7/00 A61F5/56 A61M16/00 (Advanced/Invention); A61B5/08 A61B5/103 A61F5/56 A61M16/00 (Core/Invention)

CPC: A61B5/0002 A61B5/0205 A61B5/024 A61B5/0402 A61B5/0478 A61B5/0488 A61B5/0496 A61B5/08 A61B5/11 A61B5/145 A61B5/4818 A61B7/003 A61M16/0057 A61M2016/0027 A61M2016/0033 A61M2205/3375 A61M2205/3569 A61M2205/3584 A61M2205/3592 A61M2205/52 A61M2205/8206 A61M2230/06 A61M2230/10 A61M2230/205 A61M2230/60 A61M2230/63 A61B5/6814 A61M16/024 G06F19/00

European: A61B5/0205 A61B5/08 A61B5/48C8 A61B5/68B2B A61M16/00K K61B5/00B K61B5/024 K61B5/0402 K61B5/0478 K61B5/0488 K61B5/0496 K61B5/11 K61B5/145 K61B7/00D K61M16/00A10 K61M16/00A14B K61M16/00M K61M205/33U K61M205/35R3 K61M205/35T1 K61M205/35T2 K61M205/52 K61M205/82B K61M230/06 K61M230/10 K61M230/20D K61M230/60 K61M230/63

US: 128/204.23 128/204.230P

Family:

Publication number	Publication date	Application number	Application date
CN101618247 A	20100106	CN200810135704	20080703
CN101618247 B	20120516	CN200810135704	20080703
DE602009039352 D1	20160804	DE200960039352T	20090702
EP2323721 A1	20110525	EP20090771905	20090702
EP2323721 A4	20120718	EP20090771905	20090702
EP2323721 B1	20160622	EP20090771905	20090702

JP2011526196 T2	20111006	JP20110517736T	20090702
JP5724085 B2	20150527	JP20110517736T	20090702
US2011100366 AA	20110505	US20090001617	20090702
WO10000135 A1	20100107	WO2009CN000749	20090702

Priority:

CN200810135704 20080703 EP20090771905 20090702 WO2009CN000749 20090702

Probable Assignee: CHOU CHANG AN

Assignee(s): (std): AN ZHOU CHANG ; CHANGAN ZHOU ; CHOU CHANG AN

Assignee(s): ZHOU CHANGAN ; ZHOU CHANG AN

Inventor(s): (std): AN ZHOU CHANG ; CHANGAN ZHOU ; CHOU CHANG AN

Inventor(s): ZHOU CHANGAN ; ZHOU CHANG AN

Agent(s): 2K PATENTANWAELTE BLASBERG KEWITZ AND REICHEL PARTNERSCHAFT MBB; ZEITLER VOLPERT KANDLBINDER; 2K PATENTANWAELTE BLASBERG KEWITZ AND REICHEL; LUNG TIN INTERNATIONAL INTELLECTUAL PROPERTY AGENT LTD

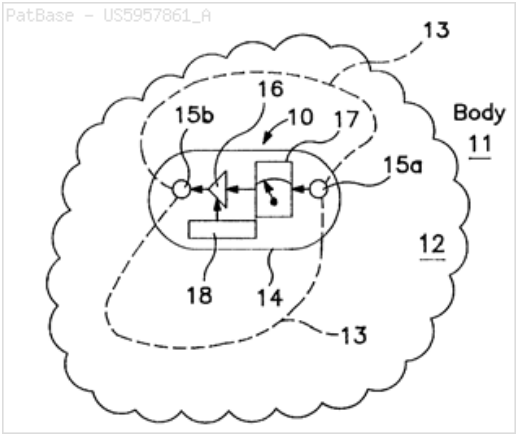
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

56) Family number: 13472896 (US5957861A)

Title: Impedance monitor for discerning edema through evaluation of respiratory rate

Abstract: An impedance monitor for discerning edema through evaluation of respiratory rate. Preferred embodiment includes edema monitor and trigger to initiate diagnostic reporting or corrective action when activated. Recording of Long Term Average and Short Term Average values for secondary edema measure based on DC signal level are described as are methods and apparatus for removing unwanted recurring noise.

Classifications:
International (IPC 8-9): A61B5/05 A61B5/053 A61B5/08 A61N1/37 (Advanced/Invention);
A61N1/362 (Advanced/Non-invention);
A61B5/053 A61B5/08 A61N1/362 (Core/Invention)
International (IPC 1-7): A61B5/00 A61B5/05 A61B5/08 A61N1/37
CPC: A61B5/0535 A61B5/0809 A61B5/4878 A61N1/3627 A61N1/3702
European: A61B5/053F A61B5/08J A61B5/48W4B A61N1/37B K61N1/362C
US: 600/481 600/529 600/536 600/547 607/6



Family:

Publication number	Publication date	Application number	Application date
CA2278292 AA	19990720	CA19982278292	19980129
CA2278292 C	20031216	CA19982278292	19980129
DE69826012 D1	20041007	DE19986026012	19980129
DE69826012 D1	20041007	DE19986026012T	19980129
DE69826012 T2	20050908	DE19986026012T	19980129
EP1011803 A1	20000628	EP19980906031	19980129
EP1011803 B1	20040901	EP19980906031	19980129
US5957861 A	19990928	US19970791206	19970131
WO9833554 A1	19980806	WO1998US01704	19980129

Priority:

US19970791206 19970131 US19970791206 19970131 WO1998US01704 19980129
WO1998US01704 19980129

Probable Assignee: MEDTRONIC INC

Assignee(s): (std): MEDTRONIC INC

Assignee(s): WARKENTIN DWIGHT H ; WAHLSTRAND JOHN D ; COMBS WILLIAM J ; CONDIE CATHERINE R ; MARTIN ROY

Inventor(s): (std): COMBS J ; COMBS WILLIAM J ; CONDIE CATHERINE R ; CONDIE R ; MARTIN ROY ; WAHLSTRAND D ; WAHLSTRAND JOHN D ; WAHLSTRANDL JOHN D ; WARKENTIN DWIGHT H ; WARKENTIN H

Agent(s): SMART AND BIGGAR

Designated states: AT BE CA CH DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE

57) Family number: 31427384 (US2004263337A)

Title: CONTROL APPARATUS AND CONTROL METHOD

Abstract: A sound, a video and/or other environments are proposed in tune with the physical condition of a user and a peripheral environmental condition such that it becomes possible for users to feel comfortable and to be satisfied with their sensibility. It is designed to produce an objective sound, video and/or other environments by inputting bio-information of a

user such as breathing, pulse-beats and heartbeats or environment information such as weather, date and hour and ambient temperature, by comparing information with the accumulated information utilized in the past, or by setting a condition that the user desires.

Classifications:

International (IPC 8-9): A61B A61B3/11 A61B5/00 A61B5/01 A61B5/0205 A61B5/0452 A61B5/0476 A61B5/0488 A61B5/05 A61B5/11 A61B5/145 A61M21/00 A61M21/02 G01D G06F G06F19/00 G06F3/00 G06F3/01 G08B23/00 G09B21/00 G10K15/04 (Advanced/Invention);
A61B5/00 (Advanced/Non-invention);
A61B3/11 A61B5/00 A61B5/01 A61B5/0205 A61B5/0452 A61B5/0476 A61B5/0488 A61B5/05 A61B5/11 A61B5/145 A61M21/00 G06F3/00 G06F3/01 G10K15/04 (Core/Invention);
A61B G06F (Subclass/Invention)

International (IPC 1-7): A61B3/11 A61B5/00 A61B5/0205 A61B5/0452 A61B5/0476 A61B5/0488 A61B5/05 A61B5/11 A61B5/145 A61M21/00 A61M21/02 G01D21/00 G06F159/00 G06F17/00 G06F19/00 G06F3/00 G08B23/00 G10K15/04

CPC: G06F3/011 G06F3/015 G08B21/06 G11B27/105 A61B5/00

European: A61B5/00 G06F3/00B8 G06F3/00B8N G06F3/01B G06F3/01B8 G08B21/06 G11B27/10A1

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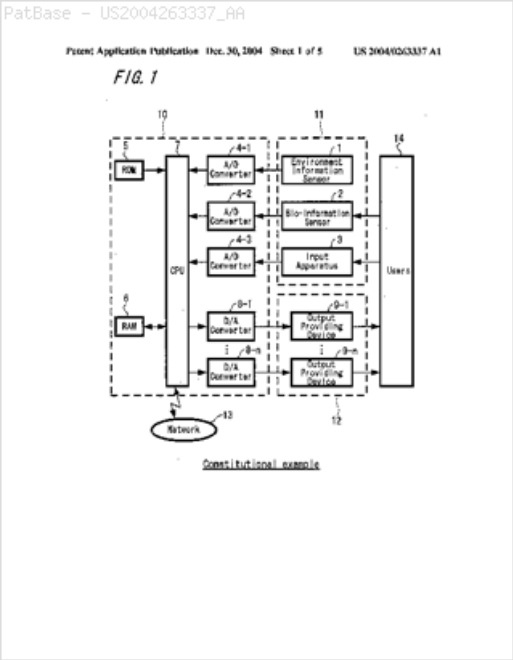

Family:

Publication number	Publication date	Application number	Application date
AU2004202501 AA	20050120	AU20040202501	20040607
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CA2472661 AA	20041230	CA20042472661	20040628
CN100399981 C	20080709	CN200410061769	20040630
CN1575745 A	20050209	CN200410061769	20040630
EP1494111 A2	20050105	EP20040253638	20040617
HK1069522 A1	20090403	HK20050102108	20050311
HK1069522 A1	20050527	HK20050102108	20050311
HK1069522 A3	20050527	HK20050102108	20050311
HK1069522 B	20090403	HK20050102108	20050311
JP2005021255 A2	20050127	JP20030188420	20030630
KR20050005757 A	20050114	KR20040042305	20040609
MY136162 A	20080829	MY20040002541	20040628
SG139542 A1	20080229	SG20040037685	20040609
TW200506692 A	20050216	TW20040117738	20040618
TWI268439 B	20061211	TW20040117738	20040618
US2004263337 AA	20041230	US20040862657	20040607
US7224282 BB	20070529	US20040862657	20040607

Priority:

JP20030188420 20030630 CA20042472661 20040628

Probable Assignee: SONY CORP

Assignee(s): (std): SONY CORP

Assignee(s): SONY 6 7 35 KITASHINAGAWA SHINAGAWA KU TOKYO JAPAN CORP ; TAKAI MOTOYUKI ; TERAUCHI TOSHIRO ; INOUE AKIKO ; INOUE MAKOTO ; MAKINO KENICHI ; MIYAJIMA YASUSHI ; SAKO YOICHIRO ; SHIRAI KATSUYA

Inventor(s): (std): AKIKO INOUE ; INOUE AKIKO ; INOUE MAKOTO ; KATSUYA SHIRAI ; KENICHI MAKINO ; MAKINO KENICHI ; MAKOTO INOUE ; MIYAJIMA YASUCHI ; MIYAJIMA YASUSHI ; MOTOYUKI TAKAI ; SAKO YOICHIRO ; SHIRAI KATSUYA ; TAKAI MOTOYUKI ; TERAUCHI TOSHIRO ; TOSHIRO TERAUCHI ; YASUSHI MIYAJIMA ; YOICHIRO SAKO

Inventor(s): SHIRAI KATSUYA AND

Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; CLT PATENT AND TRADEMARK HK LTD UNIT 10 34 F OFFICE TOWER CONVENTION; CLT PATENT AND TRADEMARK HK LTD; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

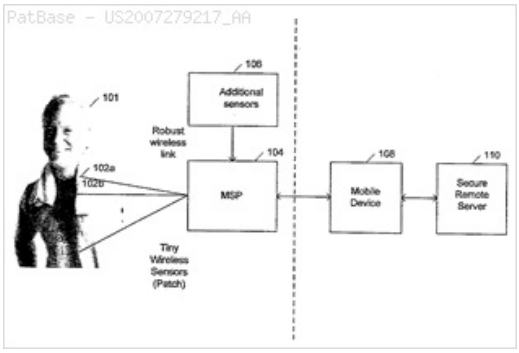
58) Family number: 36054242 (US2007279217A)

Title: INTEGRATED MOBILE HEALTHCARE SYSTEM FOR CARDIAC CARE

Abstract: A distributed sensor based mobile/remote monitoring system for the management of various types of disease is disclosed. The system is capable of continuously monitoring a variety of parameters relating to the state of various diseases. The parameter monitoring can be continuous, periodic or episodic. A system to manage particular types of diseases can be defined by selecting appropriate parameters for that disease. A cardiac care product, based on the distributed sensor based mobile/remote monitoring system, is also disclosed. The product comprises a distributed sensor system including at least one patch for wirelessly monitoring a physiological parameter; and a biostrip for providing analysis of the blood of a person. The product further includes a mobile device for receiving signals from the distributed sensor system. The mobile device has one mechanism that includes a real-time wireless monitoring of the physiological parameter and a second mechanism that monitors the analysis of the blood.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/02 A61B5/0402 G08B1/08 (Advanced/Invention);
A61B5/00 A61B5/02 A61B5/0402 G08B1/00 (Core/Invention)
CPC: A61B5/7232 A61B5/0022 A61B5/0006 A61B5/024 A61B5/0402 A61B5/0816 A61B5/14532 A61B2562/0219 A61B5/6833 A61B5/0024 G16H40/67 G06F19/00
European: A61B5/00B A61B5/68B3D1 K61B5/00B3B K61B5/024 K61B5/0402 K61B5/08R K61B5/145G K61B562/02C
US: 340/539.12 340/539.120P 600/300 600/300S 600/301 600/301P 600/509 600/509S



Family:

Publication number	Publication date	Application number	Application date
EP1993437 A2	20081126	EP20070757453	20070223
EP1993437 A4	20140514	EP20070757453	20070223
US2007279217 AA	20071206	US20070756161	20070531
US2010049006 AA	20100225	US20070096195	20070223
US2010160746 AA	20100624	US20100702127	20100208
WO07101141 A2	20070907	WO2007US62772	20070223
WO07101141 A3	20080110	WO2007US62772	20070223

Priority:

US20060776590P 20060224 US20060810742P 20060601 WO2007US62772 20070223
US20070096195 20070223 US20070756161 20070531 US20100702127 20100208

Probable Assignee: HMICRO INC

Assignee(s): (std): HMICRO INC ; HMICRO INC A DELAWARE CORP ; MAGAR SURENDAR ; SATTIRAJU VENKATESWARA RAO ; MICRO INC H

Assignee(s): H MICRO INC

Inventor(s): (std): VENKATRAMAN MAHESH ; SATTIRAJU VENKATESWARA RAO ; MAGAR SURENDAR

Agent(s): PRICE NIGEL JOHN KING; SAWYER LAW GROUP LLP; WILSON SONSINI GOODRICH AND ROSATI

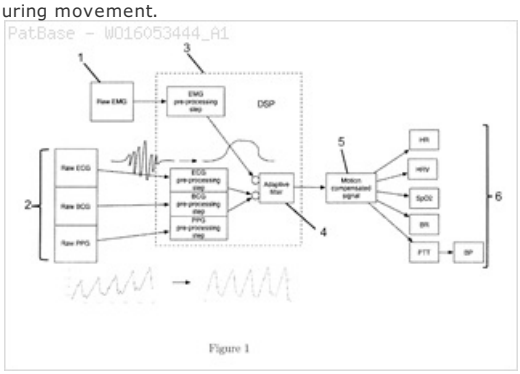
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL 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 ZA ZM ZW

59) Family number: 62066883 (WO16053444A1)

Title: SYSTEM AND METHOD FOR MOTION ARTIFACT REDUCTION USING SURFACE ELECTROMYOGRAPHY

Abstract: A system and method for motion artifact reduction using surface EMG are provided. The method of the invention is to be applied to physiological signal analysis. The system and method of the invention can compensate for motion artifacts which corrupt physiological signals, measured by wearable devices, during movement.

Classifications:
International (IPC 8-9): A61B5/04 A61B5/0488 (Advanced/Invention)
CPC: A61B5/0488 A61B5/02438 A61B5/0432 A61B5/1102 A61B5/6824 A61B5/721 A61B5/725



Family:

Publication number	Publication date	Application number	Application date
TW201617027 A	20160516	TW20150125984	20150810
WO16053444 A1	20160407	WO2015US40543	20150715

Priority:

US20140058729P 20141002

Probable Assignee: LIFEQ GLOBAL LTD

Assignee(s): (std): LIFEQ GLOBAL LTD ; OLIVIER LAURENCE RICHARD

Inventor(s): (std): OLIVIER LAURENCE RICHARD

Agent(s): KIRSCH GREGORY J ET AL

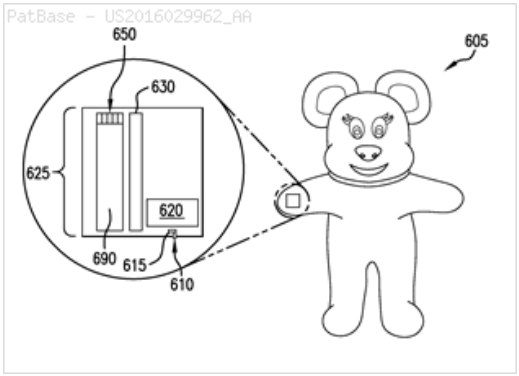
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX 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

60) Family number: 61593623 (US2016029962A)

Title: MEDICALLY ACTIVE TOYS

Abstract: Embodiments are disclosed herein that relate to smart systems, methods, and devices for testing, monitoring, and/or diagnosing a subject based on assessment of one or more physiological parameters and/or biological agents. In an embodiment, a smart toy device is employed, optionally as part of a system, to engage with a subject by way of one or more sensors embedded in the toy device. In an embodiment, the toy device instructs the subject on how to engage most effectively with it in order to provide data related to the subject's disease, condition or diagnosis. In an embodiment, the toy device provides one or more rewards to the subject for complying with instructions and/or sensor engagement and/or biological testing.

Classifications:
International (IPC 8-9): A61B10/02 A61B5/00 A61B5/0205 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/11 A61B5/117 A61B5/145 A61B5/1455 A61B5/1477 A61B7/00 A61J7/00 A61M11/00 A61M37/00 A61M5/32 (Advanced/Invention)
CPC: A61B5/6896 A61B5/0002 A61B10/02 A61M11/005 A61B2503/06 A61B2560/0475 A61J7/0069 A61B7/00 A61M15/00 A61M2205/59 A61M37/00 A63H3/02 A63H2200/00 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/14551 A61B5/1477 A61B5/117 A61B5/1171 G16H40/63 G06F19/00
US: 600/300 600/301 600/306 600/309 600/324 600/372 600/532 600/549 600/586



Family:

Publication number	Publication date	Application number	Application date
US2016029962 AA	20160204	US20140445568	20140729

Priority:
US20140445568 20140729

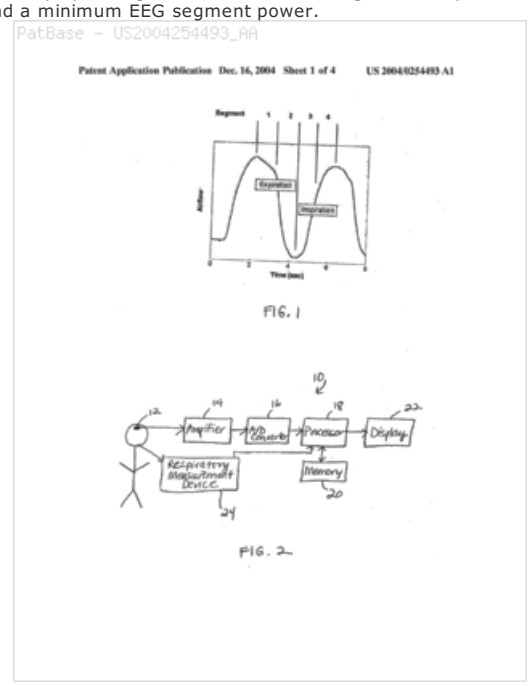
Probable Assignee: ELWHA LLC
Assignee(s): (std): ELWHA LLC
Inventor(s): (std): HYDE RODERICK A ; ISHIKAWA MURIEL Y ; JUNG EDWARD K Y ; LEUTHARDT ERIC C ; SWEENEY ELIZABETH A ; WOOD JR LOWELL L ; WOOD VICTORIA Y H
Inventor(s): WOOD VICTORIA YH ; JUNG EDWARD KY

61) Family number: 31395624 (US2004254493A)

Title: SYSTEM AND METHOD FOR ANALYSIS OF RESPIRATORY CYCLE-RELATED EEG CHANGES IN SLEEP-DISORDERED BREATHING

Abstract: A system and method for determining respiratory cycle-related EEG changes (RCREC) for a subject with sleep-disordered breathing are provided. The method includes receiving an EEG signal from the subject using at least one sensor, and defining at least two respiratory cycle segments within each respiratory cycle. The method further includes determining an EEG power of the EEG signal during each of the at least two respiratory cycle segments, and determining RCREC by calculating a difference between a maximum EEG segment power and a minimum EEG segment power.

Classifications:
International (IPC 8-9): A61B5/00 A61B5/02 A61B5/048 (Advanced/Invention); A61B5/087 (Advanced/Non-invention); A61B5/0476 (Core/Invention); A61B5/08 (Core/Non-invention)
International (IPC 1-7): A61B5/04
CPC: A61B5/048 A61B5/08 A61B5/087 A61B5/4818
European: A61B5/048 A61B5/08 A61B5/48C8 K61B5/087
US: 600/534 600/538 600/544 600/544P



Family:

Publication number	Publication date	Application number	Application date
US2004254493 AA	20041216	US20040866931	20040614
US7190995 BB	20070313	US20040866931	20040614

Priority:

US20030478673P 20030613 US20040866931 20040614

Probable Assignee: ALTARUM INST

Assignee(s): (std): ALTARUM INST ; UNIV MICHIGAN

Assignee(s): THE UNIV OF MICHIGAN ; UNIV ; THE REGENTS OF THE UNIVERSITY OF MICHIGAN ; UNIV OF MICHIGAN ; ALTARUM INSTITUTE ; NATIONAL INST ; NATIONAL INSTITUTES OF HEALTH ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; OF MICHIGAN UNIV

Inventor(s): (std): BURNS JOSEPH W ; CHERVIN RONALD D ; ROUSSI CHRISTOPHER ; SUBOTIC NIKOLAS S

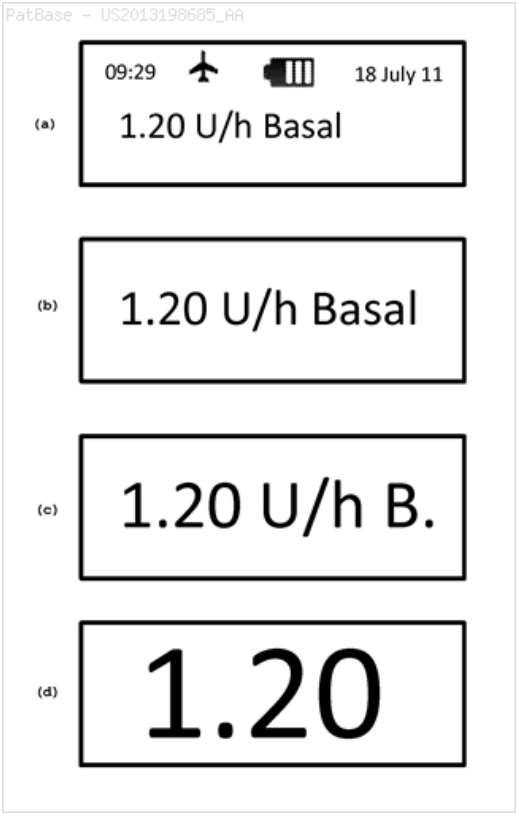
Agent(s): BROOKS KUSHMAN PC

62) Family number: 52871489 (US2013198685A)

Title: CONTROLLING THE DISPLAY OF A DATASET

Abstract: A medical system comprising a display is presented. In response to the reception of triggering information, a subset of data is selected from a displayed or non-displayed dataset according to a data priority scheme and the displayed dataset is replaced by the display of the selected subset of data. The display of the selected subset of data uses a variety of rendering options. The triggering information is provided by the user or provided by one or more sensors. The data priority scheme is predefined or computed. It is static or dynamic. The data priority scheme can comprise a threshold which is applied for the selection or determination of the subset of data. Examples of priorities associated with data for diabetes care are provided. A range of displays can be used and combined.

Classifications:
International (IPC 8-9): G06F19/00 G06F3/048 G06F3/0484 (Advanced/Invention)
CPC: G06F3/01 G06F3/0484 G16H40/63 G06F19/00
US: 715/800



Family:

Publication number	Publication date	Application number	Application date
EP2551784 A1	20130130	EP20110006203	20110728
US2013198685 AA	20130801	US20120560469	20120727

Priority:

EP20110006203 20110728

Probable Assignee: ROCHE DIABETES CARE INC

Assignee(s): (std): ROCHE DIAGNOSTICS GMBH ; HOFFMANN LA ROCHE ; RICKERT CHRISTOPH ; SIGRIST RETO ; SCHUETZ ANDREA ; SPOERRI BEAT ; BERNINI NICOLE

Assignee(s): F HOFFMANN LA ROCHE AG ; FHOFFMANN LA ROCHE AG ; ROCHE DIAGNOSTICS INT AG ; ROCHE DIABETES CARE INC

Inventor(s): (std): SPOERRI BEAT ; SIGRIST RETO ; SCHUETZ ANDREA ; RICKERT CHRISTOPH ; BERNINI NICOLE

Agent(s): Silber Anton

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

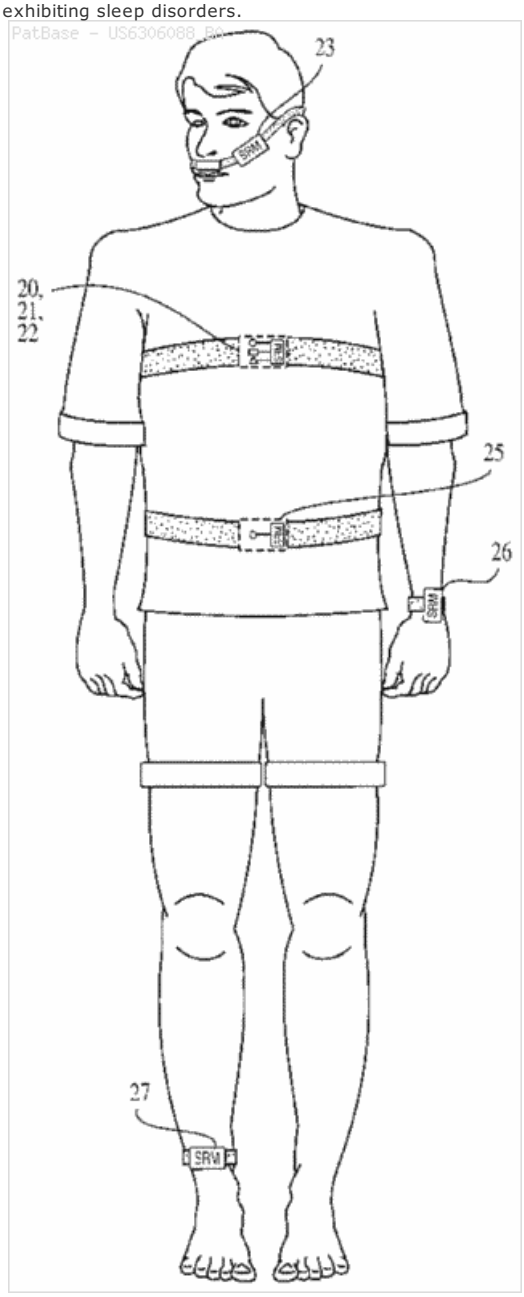
63) Family number: 15809396 (US6306088B)

Title: AMBULATORY DISTRIBUTED RECORDERS SYSTEM FOR DIAGNOSING MEDICAL DISORDERS

Abstract: The present invention provides a method and apparatus for diagnosing of the medical condition of a fully

ambulatory subject who exhibits temporal variations in various physiological parameters as a result of the subject's medical condition. The method comprises the steps of (1) locating a separate, self-contained, recording unit on a plurality of selected measurement sites of the subject, (2) using these units to collect sensor output data, (3) sampling this sensor output data at prescribed time intervals, (4) time stamping and storing this sampled data in recording, (5) transferring this data via a smart input/output interface device to an external computer, and (6) using the external computer with appropriate application software to analyze and diagnose the medical condition of the subject. A system of recording units is disclosed for an embodiment of the present invention directed at diagnosing subjects exhibiting sleep disorders.

Classifications:
International (IPC 8-9): A61B5/0205 A61B5/0432 (Advanced/Invention); A61B5/00 A61B5/0476 A61B5/0488 A61B5/087 A61B5/11 A61B5/113 (Advanced/Non-invention); A61B5/0205 A61B5/0432 (Core/Invention); A61B5/00 A61B5/0476 A61B5/0488 A61B5/08 A61B5/11 (Core/Non-invention)
International (IPC 1-7): A61B5/00
CPC: A61B5/02055 A61B5/04325 A61B5/0476 A61B5/0488 A61B5/0878 A61B5/11 A61B5/113 A61B5/1455 A61B5/4809 A61B5/4818 A61B5/6814 A61B5/6831 G06F19/00
European: A61B5/0205B A61B5/0432B A61B5/48C2 A61B5/48C8 A61B5/68B2B A61B5/68B3B K61B5/0476 K61B5/0488 K61B5/087J K61B5/11 K61B5/113 K61B5/1455
US: 600/301 600/483 600/523 600/534



Family:

Publication number	Publication date	Application number	Application date
US6306088 BA	20011023	US19980185055	19981003

Priority:

US19980185055 19981003

Probable Assignee: INDIVIDUAL MONITORING SYSTEMS INC

Assignee(s): (std): INDIVIDUAL MONITORING SYSTEMS

Assignee(s): INDIVIDUAL MONITORING SYSTEMS INC ; NATIONAL INST ; NATIONAL INSTITUTES OF HEALTH ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT

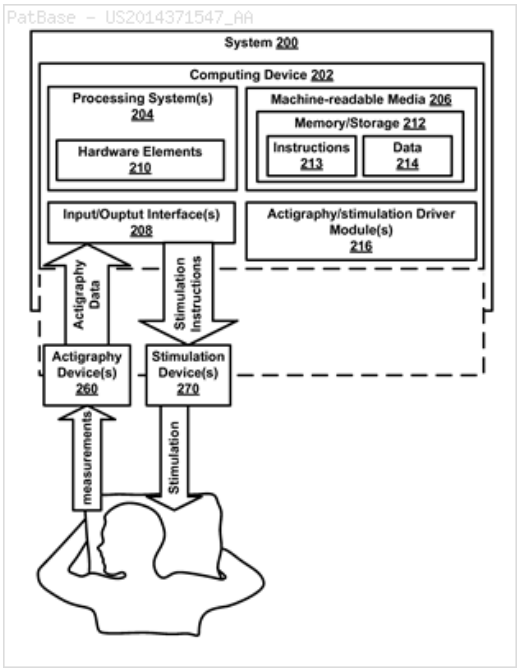
Inventor(s): (std): ALLEN RICHARD P ; KRAUSMAN DAVID T

64) Family number: 58066816 (US2014371547A)

Title: SLEEP MONITORING AND STIMULATION

Abstract: Sleep monitoring and stimulation comprises collecting actigraphy data from a user. The user's sleep phase is determined using the actigraphy data. At least one stimulation, determined at least in part on the sleep phase, is directed towards the user. Subsequent actigraphy data is collected from the user. The actigraphy data and subsequent actigraphy data is used to determine the user's subsequent sleep phase. The stimulation is modified, based at least in part upon the subsequent sleep phase.

Classifications:
International (IPC 8-9): A61B5/00 (Advanced/Invention)
CPC: A61B5/0048 A61B5/4812
US: 600/301 600/559 600/595



Family:

Publication number	Publication date	Application number	Application date
US2014371547 AA	20141218	US20140302482	20140612

Priority:

US20130833922P 20130612 US20130910418P 20131201 US20140302482 20140612

Probable Assignee: PROACTIVE LIFE LLC

Assignee(s): (std)**:** GARTENBERG DANIEL ; GERASHCHENKO DMITRY

Assignee(s): PROACTIVE LIFE LLC

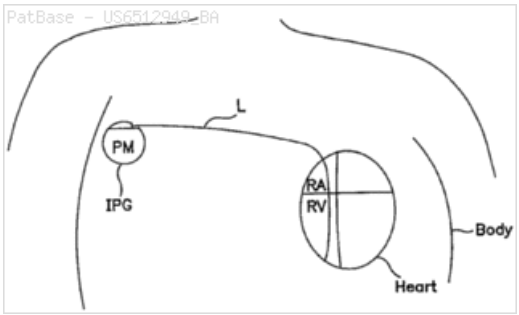
Inventor(s): (std)**:** GARTENBERG DANIEL ; GERASHCHENKO DMITRY

65) Family number: 28021125 (US6512949B)

Title: IMPLANTABLE MEDICAL DEVICE FOR MEASURING TIME VARYING PHYSIOLOGIC CONDITIONS ESPECIALLY EDEMA AND FOR RESPONDING THERETO

Abstract: An impedance monitor for discerning edema through evaluation of respiratory rate. Preferred embodiment includes edema monitor and trigger to initiate diagnostic reporting or corrective action when activated. Recording of Long Term Average and Short Term Average values for secondary edema measure based on DC signal level are described as are methods and apparatus for removing unwanted recurring noise.

Classifications:
International (IPC 8-9): A61B5/053 A61N1/365 (Advanced/Invention);
A61N1/362 (Advanced/Non-invention);
A61B5/053 A61N1/365 (Core/Invention);
A61N1/362 (Core/Non-invention)
International (IPC 1-7): A61B5/00
CPC: A61B5/7207 A61N1/36521 A61B5/0535 A61N1/3627
European: A61B5/053F A61N1/365B2 K61N1/362C
US: 600/547 607/9



Family:

Publication number	Publication date	Application number	Application date
US6512949 BA	20030128	US19990352179	19990712

Priority:

US19990352179 19990712

Probable Assignee: MEDTRONIC INC

Assignee(s): (std)**:** MEDTRONIC INC

Inventor(s): (std)**:** COMBS WILLIAM J ; CONDIE CATHERINE R ; MARTIN ROY ; THOMPSON DAVID L ; WAHLSTRAND JOHN D ; WANG LI ; WARKENTIN DWIGHT H

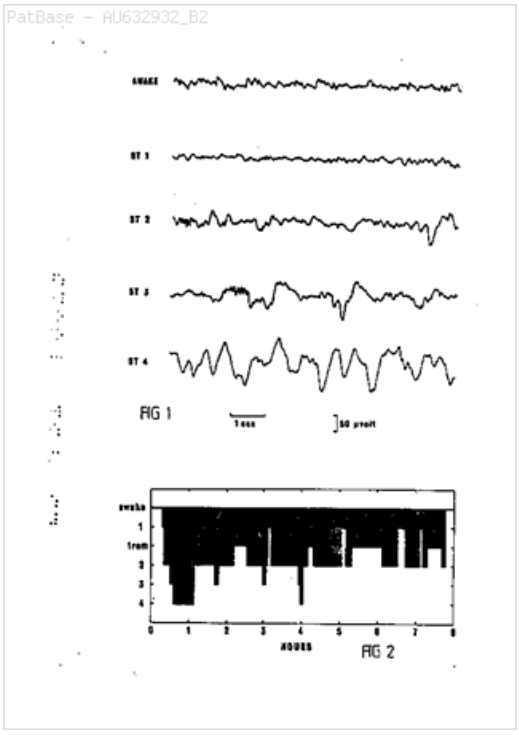
66) Family number: 3479906 (AU199176019A)

Title: ANALYSIS SYSTEM FOR PHYSIOLOGICAL VARIABLES

Abstract: A corresponding method ia also claimed. 1. Apparatus for processing a non-stationary time varying signal representing a physiological variable, said apparatus comprising: means for dividing said signal into notional time intervals;

means for assigning during each time interval, a zero level for said signal; means for measuring during each time interval, the duration of time segments between successive zero level crossings by said signal; means for sorting said measured time segments according to a plurality of wave bands, each wave band being defined by upper and lower frequencies corresponding to lower and upper time periods respectively; and means for displaying the relative frequency of occurrence of time segments in each defined wave band.

Classifications:
International (IPC 8-9): A61B5/0476 G01R23/177 (Advanced/Invention); A61B5/0476 G01R23/16 (Core/Invention)
International (IPC 1-7): A61B5/04 G01R23/177
CPC: A61B5/0476 G01R23/177
European: A61B5/0476 G01R23/177



Family:

Publication number	Publication date	Application number	Application date
AU199176019 A1	19920102	AU19910076019	19910429
AU632932 B2	19930114	AU19910076019	19910429
AU7601991 A1	19920102	AU19910076019D	19910429

Priority:
AU1990PK00856 19900626 AU19910076019 19910429

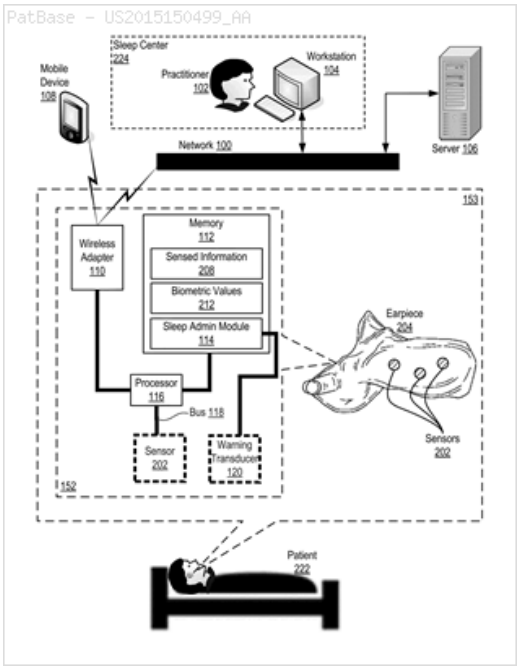
Probable Assignee: DAVID BURTON
Assignee(s): (std): DAVID BURTON
Assignee(s): COMPUMEDICS LTD
Inventor(s): (std): BURTON DAVID ; JOHNS MURRAY WILLIAM
Inventor(s): DAVID BURTON ; MURRAY WILLIAM JOHNS
Agent(s): PHILLIPS ORMONDE FITZPATRICK

67) Family number: 59393676 (US2015150499A)

Title: ADMINISTERING A SLEEP DISORDER

Abstract: Methods and apparatuses for administering a sleep disorder are provided. Embodiments include receiving, in a sleep administration module through one or more sensors of an earpiece worn within an ear of a sleeping patient, information regarding the sleep of the patient; deriving, by the sleep administration module from the information regarding the sleep of the patient, one or more biometric values capable of indicating the existence of a sleep disorder; and determining, by the sleep administration module, whether the one or more biometric values indicate that the sleeping patient is presently experiencing a sleep disorder.

Classifications:
International (IPC 8-9): A61B5/00 (Advanced/Invention)
CPC: A61B5/4818 A61B5/0022 A61B5/6817 A61B5/746
US: 600/301



Family:

Publication number	Publication date	Application number	Application date
US2015150499 AA	20150604	US20130094210	20131202

Priority:

US20130094210 20131202

Probable Assignee: UNITED SCIENCES LLC

Assignee(s): (std): UNITED SCIENCES LLC

Assignee(s): ETHOS OPPORTUNITY FUND I LLC

Inventor(s): (std): GEORGE EOHAN ; HATZILIAS KAROL ; PATEL MAYOOR ; PINGALI GOVINDA ; POZGAY BRIAN ; RAUBOLT JIM ; SHARPE WESS ERIC ; THOMPSON JACOB

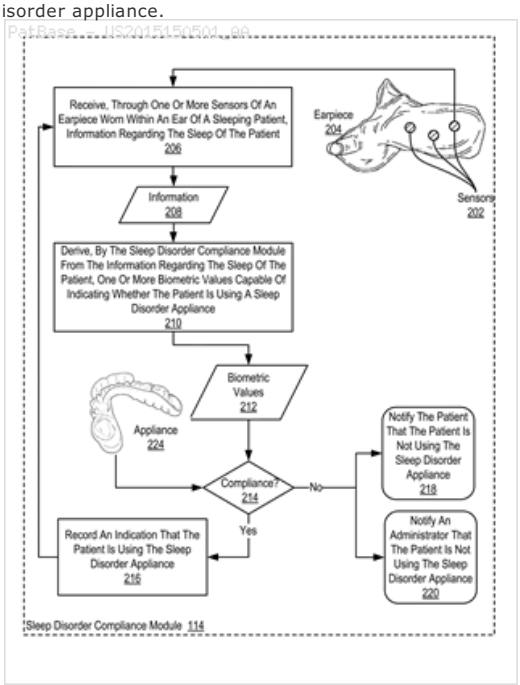
68) Family number: 59393665 (US2015150501A)

Title: SLEEP DISORDER APPLIANCE COMPLIANCE

Abstract: Methods and apparatus are described for determining sleep disorder appliance compliance. Embodiments include receiving, in a sleep disorder compliance module through one or more sensors of an earpiece worn within an ear of a sleeping patient, information regarding the sleep of the patient; deriving, by the sleep disorder compliance module from the information regarding the sleep of the patient, one or more biometric values capable of indicating whether the patient is using a sleep disorder appliance; and determining, by the sleep disorder compliance module, whether the one or more biometric values indicate that the sleeping patient is presently using the sleep disorder appliance.

Classifications:

International (IPC 8-9): A61B5/00 (Advanced/Invention)
CPC: A61B5/4833 A61B5/4818 A61B5/0476 A61B5/0488 A61B5/0496 A61B5/6817 A61B2562/0204 A61B2562/0219
US: 600/301



Family:

Publication number	Publication date	Application number	Application date
US2015150501 AA	20150604	US20130094269	20131202

Priority:

US20130094269 20131202

Probable Assignee: UNITED SCIENCES LLC

Assignee(s): (std)**:** UNITED SCIENCES LLC

Assignee(s): ETHOS OPPORTUNITY FUND I LLC

Inventor(s): (std)**:** GEORGE EOHAN ; HATZILIAS KAROL ; PATEL MAYOOR ; PINGALI GOVINDA ; POZGAY BRIAN ; RAUBOLT JIM ; SHARPE WESS ERIC ; THOMPSON JACOB

69) Family number: 41806229 (DE102007053733A1)

Title: SENSOR E.G. ABSOLUTE PRESSURE SENSOR, SIGNAL RECEIVING DEVICE FOR USE IN SLEEP LABORATORY, HAS TRANSPONDER PARTIALLY CONVERTING ENERGY FROM READER INTO ELECTRICITY, WHERE TRANSPONDER AND SENSOR ARE ARRANGED IN AREA OF PATIENT INTERFACE

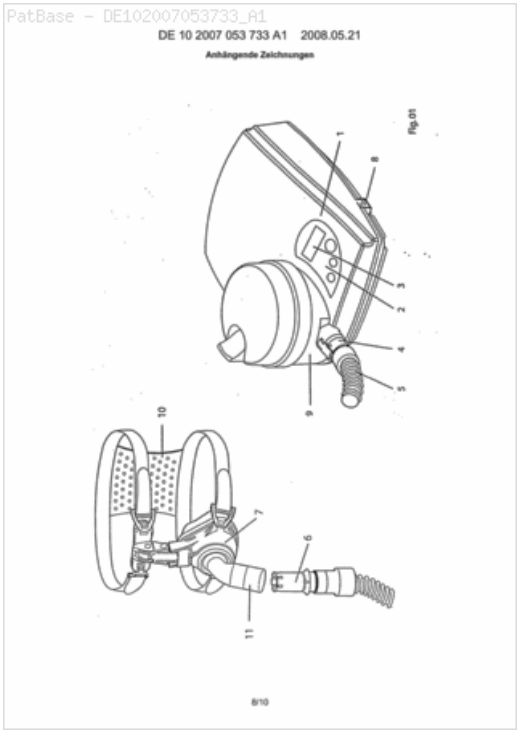
Abstract: The device has a reader, which transmits and/or receives energy in the form of an electromagnetic frequency field, and a radio frequency identification (RFID) transponder, which receives the energy of the reader, and partially converts energy into electricity. The transponder is connected with the sensor, where the transponder and a sensor e.g. flow sensor, are arranged in an area of a patient interface (7). The transponder is electro-conductively connected with the sensor, where the patient interface is formed for a direct or indirect contact with the body of the patient. Independent claims are also included for the following: (1) a method for receiving sensor signals (2) a device for supplying breathing gases (3) a device for transmission of energy.

Classifications:

International (IPC 8-9)**:** A61B5/00 A61B5/04 A61B5/08 A61M16/00 A61M16/06 G08C17/02 H02J17/00 (Advanced/Invention); A61B5/00 A61B5/04 A61B5/08 A61M16/00 A61M16/06 G08C17/00 H02J17/00 (Core/Invention)

CPC: A61B5/0006 A61B5/08 A61B2560/0219 A61B2562/08 A61M16/0633 A61M16/0683 A61M2016/0027 A61M2016/0036 A61M2230/10 A61M2230/20 A61M2230/30 A61M2230/50 A61M2230/60 H02J17/00 A61M16/142 A61M16/021 H02J50/10 H02J50/40

European: A61B5/00B2 A61B5/00B3B A61B5/08 A61M16/00K H02J17/00 K61B560/02B4B K61B562/08 K61M16/00A10 K61M16/00A14B2 K61M16/06A7 K61M16/06S K61M16/14B K61M230/10 K61M230/20 K61M230/30 K61M230/50 K61M230/60



Family:

Publication number	Publication date	Application number	Application date
DE102007053733 A1	20080521	DE200710053733	20071108

Priority:

DE200610054232 20061115 DE200710053733 20071108

Probable Assignee: WEINMANN G GERAETE MED

Assignee(s): (std)**:** WEINMANN G GERAETE MED

Assignee(s): WEINMANN GERAETE F MEDIZIN GMBH AND CO KG ; WEINMANN GERAETE FUER MEDIZIN GMBH AND CO KG

Inventor(s): (std)**:** WORTELEN HENNING ; DIETZ FLORIAN