

Nicolas Vargas

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Search 1: SFT=(mcs and payload) and PN=(US2012294294) (Results 1)
Search 2: STAC=(back and posture and brace) and PN=(US2012294294) (Results 0)
Search 3: STAC=(back and posture and brace) and PD<20180821 (Results 137)
Search 4: STAC=(back and brace) and PD<20180821 (Results 12318)
Search 5: 5 and (accelerometer* or imu) (Results 159636)
Search 6: 4 and (accelerometer* or imu) (Results 67)
Search 7: 6 and (adheren* or adhesive) (Results 27)
Search 8: 7 and posture (Results 8)
Search 9: STAC=(posture) and PD<20180821 (Results 89964)
Search 10: STA=(posture) and PD<20180821 (Results 81450)
Search 11: 10 and sensor and (accelerometer* or imu) (Results 788)
Search 12: 11 and back and (adhesive or adheren*) (Results 81)
Search 13: 12 and correct* and transm* (Results 47)
Search 14: 13 and bluetooth (Results 33)

1) Family number: 53537024 (US2013099249A)

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Title: NITRIDE UV LIGHT **SENSORS** ON SILICON SUBSTRATES

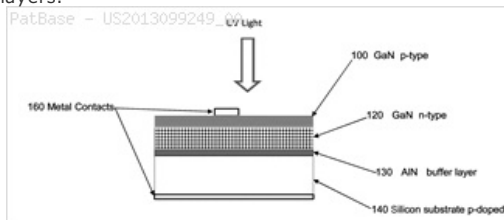
Abstract: An ultraviolet light **sensor** and method of manufacturing thereof are disclosed. The ultraviolet light **sensor** includes Group-III Nitride layers adjacent to a silicon wafer with one of the layers at least partially exposed such that a surface thereof can receive UV light to be detected. The Group-III Nitride layers include a p-type layer and an n-type layer, with p/n junctions therebetween forming at least one diode. Conductive contacts are arranged to conduct electrical current through the **sensor** as a function of ultraviolet light received at the outer Group-III Nitride layer. The Group-III Nitride layers may be formed from, e.g., GaN, InGaN, AlGaIn, or InAlN. The **sensor** may include a buffer layer between one of the Group-III Nitride layers and the silicon wafer. By utilizing silicon as the substrate on which the UV **sensor** diode is formed, a UV **sensor** can be produced that is small, efficient, cost-effective, and compatible with other semiconductor circuits and processes. The **sensor** may be configured to be sensitive to a specific subtype or subband of ultraviolet radiation to be detected by selecting a specific composition of said Group-III Nitride layers.

Classifications:

International (IPC 8-9): G06Q30/02 H01L21/00 H01L25/16 H01L29/06 H01L29/15 H01L31/00 H01L31/02 H01L31/0256 H01L31/0304 H01L31/0328 H01L31/0336 H01L31/072 H01L31/102 H01L31/103 H01L31/109 H01L31/18 H04L29/08 H04N7/18 H04W4/00 H04W4/02 H04W4/14 H04W4/20 H04W68/00 (Advanced/Invention); H04W4/00 H04W4/14 H04W88/02 (Advanced/Non-invention)

CPC: H01L31/03044 H01L31/03048 H01L31/1848 H01L31/1856 H01L31/1035 Y02E10/544 Y02P70/521 H01L25/167 H01L31/02002 H01L25/162 H01L31/18 H01L31/02019 H01L31/02005 H01L31/1852 H01L2224/11 H01L2924/0002 H01L2924/00 H04W4/14 G06Q30/0261 H04L67/26 H04W4/026 H04N7/185 H04W88/02 H04W4/023 H04W4/21 H04W4/50 H04W4/80 H04W68/005

US: 1/1 257/184 257/21 257/459 257/76 257/80 257/82 438/64 438/94 438/98 455/418 455/466



Family:

Publication number	Publication date	Application number	Application date
US2013099249 AA	20130425	US20120659206	20121024
US2014264358 AA	20140918	US20130799011	20130313
US2015102450 AA	20150416	US20140551427	20141124
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US2016345148 AA	20161124	US20160225783	20160801
US2018019351 AA	20180118	US20170718612	20170928
US2019081193 AA	20190314	US20180184621	20181108
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US9584993 BB	20170228	US20160225783	20160801
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Priority:

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Probable Assignee: BILLJCO LLC

Assignee(s): (std): FORCIER JOSHUA ; JOHNSON JASON M ; JOHNSON WILLIAM J ; ROSESTREET LABS LLC

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Agent(s): GREENBERG TRAUIG LLP; YUDELL ISIDORE PLLC; KURTZ RICHARD 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 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

2) Family number: 53956033 (US2014343392A)

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Title: OBJECT, METHOD, AND SYSTEM FOR DETECTING HEARTBEAT OR WHETHER OR NOT ELECTRODES ARE IN PROPER CONTACT

Abstract: The invention discloses an object, a method and a system for detecting heartbeat or whether an electrode is in good contact. The heartbeat is detected by arranging multiple textile electrodes on the textile, using ECG equipotential line diagram, considering interference caused of human movement, and designing a separating electrode structure, electrode position, area and lead layout in an innovative manner; the dry electrode or capacitive coupling electrode is selected along with the change of environmental state so as to pick up the ECG signals; the contact between the electrode and the human body can be detected whether it is in a good state or not by measuring the noise, body surface impedance, muscle impedance and the like; in addition, the **posture** and action of human body can be speculated according to the wave mode and noise of the ECG signals.

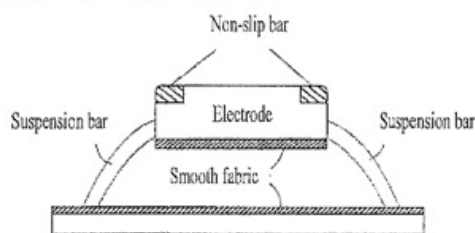
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US: 600/393

PatBase - US2014343392_AA



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Publication number	Publication date	Application number	Application date
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CN104302351 B	20160629	CN201280058101	20120330
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EP2783725 A4	20160504	EP20120851285	20120330
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JP2017140411 A2	20170817	JP20170049365	20170315
JP2017213391 A2	20171207	JP20170143790	20170725
JP6169592 B2	20170726	JP20140542681T	20120330
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KR101854244 B1	20180503	KR20167024326	20120330
KR20140098809 A	20140808	KR20147017093	20120330
KR20160108587 A	20160919	KR20167024323	20120330
KR20160108588 A	20160919	KR20167024326	20120330
US2014343392 AA	20141120	US20140288259	20140527
WO13075270 A1	20130530	WO2011CN001963	20111125
WO13075388 A1	20130530	WO2012CN000417	20120330

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WO2011CN001963 20111125 CN201280058101 20120330 JP20140542681T 20120330
JP20170049365 20120330 WO2012CN000417 20120330 JP20170049365 20170315
JP20170143790 20170725

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

3) Family number: 34254056 (US2007050047A)

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Title: SYSTEM AND METHOD FOR DETERMINING TERRAIN TRANSITIONS

Abstract: A prosthetic or orthotic system including a **sensor** module and a processing module usable to determine a terrain variable, such as a terrain transition. In certain examples, the system is capable of anticipating a terrain transition prior to the user experiencing the terrain transition, which may include, for instance, a transition from level ground walking to walking

on stairs or may include a change in a slope of the ground surface. In certain embodiments, the system advantageously monitors a **posture** and/or movement of the patient to anticipate the terrain transition. Furthermore, the system may control an actuator to appropriately adjust the prosthetic or orthotic device to encounter the anticipated terrain transition.

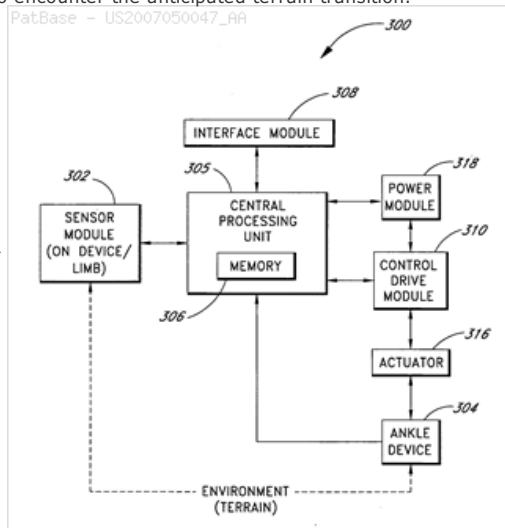
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CPC: A61F2/68 A61F2/76 A61F2002/5003 A61F2002/5004 A61F2002/5018 A61F2002/503 A61F2002/5033 A61F2002/701 A61F2002/704 A61F2002/705 A61F2002/762 A61F2002/7635 A61F2002/764 A61F2002/7645 A61F2002/7685 A61F2/64 A61F2/6607 A61F2/72

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US: 602/27 602/27S 623/24 623/24P 623/25 623/47 623/47S 623/53



Family:

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CN101453964 A	20090610	CN200680039472	20060830
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EP1942843 A2	20080716	EP20060802640	20060830
EP1942843 B1	20170301	EP20060802640	20060830
US2007050047 AA	20070301	US20060512645	20060830
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Priority:

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US20120451407 20120419 US20140491595 20140919

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Inventor(s): CLAUSEN ARINBJORN ; RAGNARSDOTTIR HEIDRUN ; RAGNARSDOTTIR HEIDRUN GIGJA

Agent(s): MELDRUM DAVID JAMES ET AL; REES KERRY; KNOBBE MARTENS OLSON AND BEAR 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 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

4) Family number: 40812058 (US2007265533A)

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Title: CUFFLESS BLOOD PRESSURE MONITORING APPLIANCE

Abstract: A heart monitoring system for a person includes one or more wireless nodes forming a wireless mesh network and a wearable appliance having a sound transducer coupled to the wireless transceiver; and a heart disease recognizer coupled to the sound transducer to determine cardiovascular health and to **transmit** heart sound over the wireless mesh network to a remote listener or processor.

Classifications:

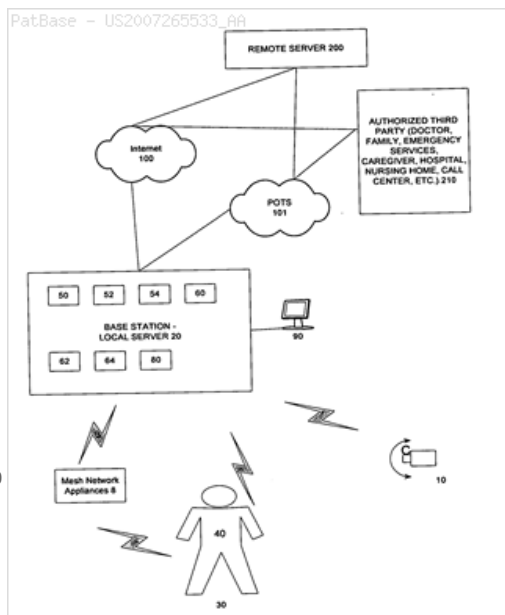
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CPC: A61B5/6833 A61B5/0004 A61B5/0015 A61B5/026 A61B5/11 A61B5/6802 A61B5/683 A61B2560/0228 A61B5/0026 A61B5/002 A61B5/686 G08B21/02 A61B5/031 A61B5/201 A61B5/4875

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Family:

Publication number	Publication date	Application number	Application date
US2007265533 AA	20071115	US20060433900	20060512
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Probable Assignee: PHILIPS KONINKLL NV

Assignee(s): (std): EMPIRE IP LLC ; PHILIPS KONINKLL NV ; TRAN BAO ; TRAN HA THI

Assignee(s): WEST 74TH STREET SERIES 75 OF ALLIED SECURITY TRUST I

Inventor(s): (std): TRAN BAO ; TRAN HA THI ; TRAN HA

Agent(s): TRAN AND ASSOCIATES; BAO Q TRAN; JOHN R; KASHA LAW LLC; KELLY L

5) Family number: 60974121 (US2015342518A)

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Title: SYSTEM AND METHOD TO MONITOR, GUIDE, AND EVALUATE BREATHING, UTILIZING **POSTURE** AND DIAPHRAGM **SENSOR** SIGNALS

Abstract: A system and method to monitor, guide, and evaluate breathing, with respect to user definable breathing patterns, sequences, and preexisting breathing exercises, utilizing posture and diaphragm sensor signals and a method to process thereof, composed of hardware and software components. The application describes a system which monitors the output signals of sensors as part of a breath training device worn by a user for measuring the state of a user's posture and diaphragm to derive a filtered breath signal. This is obtained using one or more sensors, a microcontroller to receive, process, and transmit sensor signal data, a breath training program which receives, calibrates, interprets, evaluates, and provides feedback on said sensor signal data, utilizing a set of breathing algorithms. The breath training program allows defining a breath pattern by specifying its parameters such as inhalation time, retention, inhalation depth, exhalation time, and constraints on such parameters, and to monitor and evaluate a user's breathing with respect to such a pattern, providing several visually guided feedback methods such as a graph on a timeline displaying evaluation indicators during each phase of a breath, or a game where the user guides a breath level game element through inhalation and exhalation zones to adhere to such a breath pattern.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/08 A61B5/11 A61B5/113 G06F3/01 G06K9/00 (Advanced/Invention)

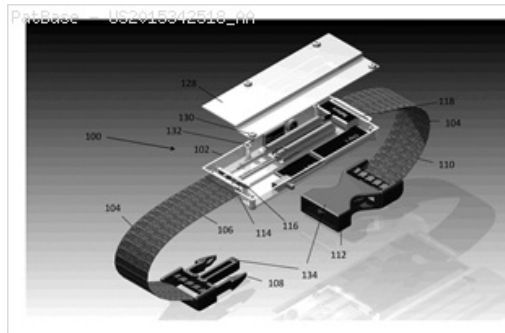
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A61B5/113 G06K9/00335 A61B2562/0219 G06F3/017 A61B5/0806

A61B5/4561 A61B5/7203

US: 600/534



Family:

Publication number	Publication date	Application number	Application date
US2015342518 AA	20151203	US20150706939	20150507
US2018256074 AA	20180913	US20180972172	20180506
WO18231858 A1	20181220	WO2018US37146	20180612

Priority:

US20140989541P 20140507 US20140044268P 20140831 US20150706939 20150507
US20170519160P 20170613 US20180972172 20180506

Probable Assignee: PRANA TECH LLC

Assignee(s): (std): AHLUND ROBIN ; AHLUND ROBIN ALEXANDER ; PERSIDSKY ANDRE ; PERSIDSKY ANDRE MAXIM ; PRANA TECH LLC

Inventor(s): (std): PERSIDSKY ANDRE MAXIM ; AHLUND ROBIN ALEXANDER ; AHLUND ROBIN ; PERSIDSKY ANDRE

Agent(s): ZWEIG STEPHEN

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

6) Family number: 40845347 (US2008086179A)

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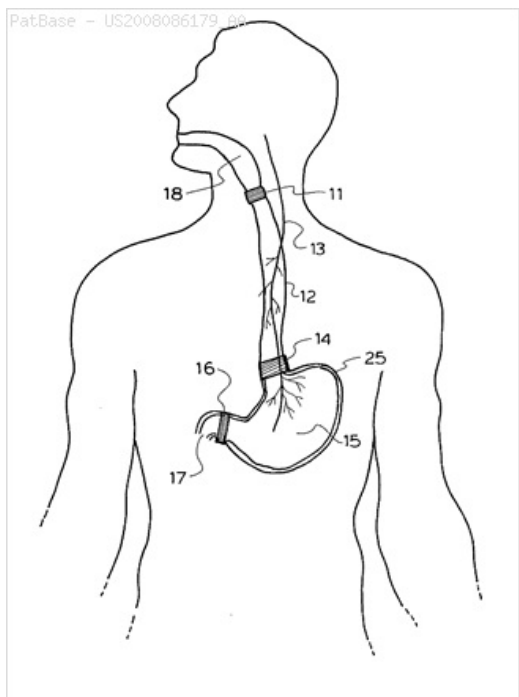
Title: METHOD AND APPARATUS FOR TREATMENT OF THE GASTROINTESTINAL TRACT

Abstract: A method and device for electrically stimulating one or more structures in the gastrointestinal tract as described. The one or more structures are preferably selected from the upper esophageal sphincter, the esophagus and gastric fundus. The method may involve the step of arranging a plurality of stimulating electrodes adjacent one or more structures which may further include the lower esophageal sphincter, the stomach, the pyloric sphincter, the small intestine, the colon and the vagus. The method and device may further include sensing electrodes to detect change in one or more physiological parameters in the gastrointestinal tract and modulate the stimulating electrodes in response to the change. The device comprises a pulse generator, a power source, a plurality of stimulating electrode set, one or more sensing electrodes and means for varying activity of the stimulating electrodes in response to change detected in the gastrointestinal tract. The method and device may be used to treat obesity and/or GERD.

Classifications:

International (IPC 8-9): A61B17/34 A61B18/14 A61B18/18 A61B5/00 A61B5/03 A61B5/053 A61B5/107 A61B5/11 A61B5/145 A61N1/00 A61N1/02 A61N1/05 A61N1/18 A61N1/36 A61N1/3614 A61N1/372 A61N1/378 G06F19/00 G16H15/00 (Advanced/Invention); A61B5/00 A61B5/03 A61B5/053 A61B5/11 A61B5/145 A61N1/05 A61N1/372 G06F19/00 G16H20/40 (Advanced/Non-invention); A61N1/00 A61N1/02 A61N1/36 (Core/Invention)
CPC: A61N1/36007 A61N1/36135 A61N1/37264 A61B5/6852 A61B5/6861 A61B5/687 A61B5/03 A61N1/0517 A61B5/42

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European: A61N1/36B
US: 1/1 600/593 607/133 607/40 607/40P 607/59 607/61 607/62
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Priority:

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US20180041426	20180720				

Probable Assignee: ENDOSTIM INC

Assignee(s): (std): SHARMA VIRENDER K ; POLICKER SHAI ; RABY KAILA ; HOGG BEVIL ; MIAZGA JAY ; GOODE PAUL V ; GANI MATT JOSEPH ; GANI MATTHEW JOSEPH ; KAILA RABY ; RABY KALIA ; SOFER EDY ; SOFFER EDY E ; ENDOSTIM INC ; CEDARS SINAI MEDICAL CENTER ; CONKLIN JEFFREY ; SOFFER EDY

Assignee(s): ENDOSTIM ; ENDOSTIM INC ST LOUIS ; TRIAD SUPPORT SYSTEMS INC

Inventor(s): (std): RABY KALIA ; SOFER EDY ; KAILA RABY ; SOFFER EDY ; GANI MATTHEW JOSEPH ; GOODE PAUL V ; RABY KAILA ; MIAZGA JAY ; POLICKER SHAI ; HOGG BEVIL ; GANI MATT JOSEPH ; SHARMA VIRENDER K ; CONKLIN JEFFREY ; SOFFER EDY E

Inventor(s): GANI MATT JOSEPH SEATTLE ; GOODE PAUL V CHERRY HILL ; HOGG BEVIL SOQUEL ; KAILA RABY REDMOND ; MIAZGA JAY SEATTLE ; POLICKER SHAI TENAFLY ; SHARMA VIRENDER K PARADISE VALLEY ; SOFFER EDY LOS ANGELES

Agent(s): WRAYS ; WRAYS PTY LTD ; MURGITROYD AND CO ; STAUDT HANS PETER ; KING ANGELA LOUISE ; THOM RUSSELL ; O BRIEN LISA ; FISHER ADAMS KELLY ; BERLINER AND ASSOCIATES ; NOVEL IP ; PATENTMETRIX ; SONA ; HAZIM ; BUCKLEY KEVIN W ET AL ; ANSARI HAZIM ; DALAL SONA

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

7) Family number: 54313416 (US2013184611A)

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Title: SYSTEM AND APPARATUS FOR **POSTURE** AND BODY POSITION **CORRECTION** AND IMPROVEMENT THROUGH A COMPUTER-ASSISTED BIOFEEDBACK SYSTEM

Abstract: A wireless, programmable biofeedback system, including one or more **sensor**/transceiver biofeedback devices, a controller/ transceiver biofeedback device, and a wireless communication link that operationally connects the **sensor**/transceiver biofeedback device to the controller/transceiver biofeedback device(s). A gyroscopic mechanism may be operationally connected to the **sensor**/transceiver biofeedback device, as may a distance measuring mechanism, memory, and/or a microprocessor. The **sensor**/transceiver biofeedback devices attached to a user's body to detect changes in position of the part of the user's body to which the device is attached, and communicate such changes wirelessly to the controller/transceiver biofeedback device. One or more indicating means provide stimulus to train and condition users to maintain or achieve certain **postures** and/or other body positions that the user can set, monitor and modify.

Classifications:

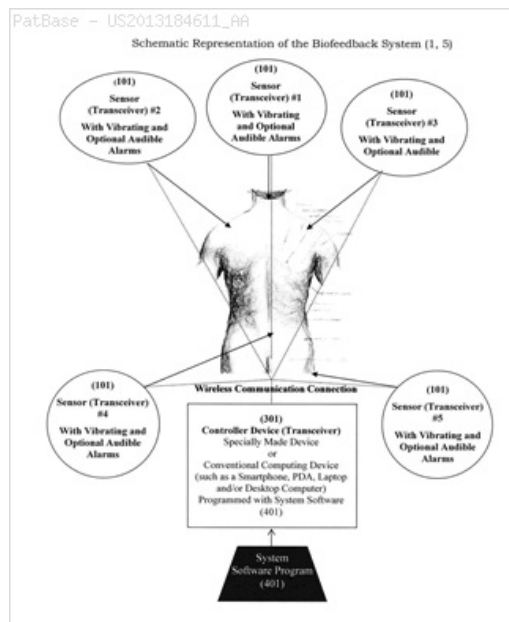
International (IPC 8-9): A61B5/00 A61B5/04 A61B5/11 H04M1/725

H04W4/00 H04W4/12 (Advanced/Invention)

CPC: A61B5/0024 A61B5/1117 A61B5/7405 A61B5/7455 A61B5/746

A61B2562/0219 H04M1/7253 H04W4/12 A61B5/486 H04W4/50

H04W4/80 A61B5/002 A61B5/0022 A61B5/1116 A61B5/6831



Family:

Publication number	Publication date	Application number	Application date
US2013184611 AA	20130718	US20120549057	20120713
US2016262688 AA	20160915	US20160042712	20160212
US2017026504 AA	20170126	US20160042709	20160212

Priority:

US20110507255P 20110713 US20120549057 20120713 US20160042712 20160212
 US20160042709 20160212

Probable Assignee:

NICHOLS ANDREW

Assignee(s): (std):

NICHOLS ANDREW

Inventor(s): (std):

NICHOLS ANDREW

8) Family number: 70781432 (US2018228403A)

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Title: WEARABLE APARATUS FOR MONITORING HEAD **POSTURE**, AND METHOD OF USING THE SAME

Abstract: A **posture** monitoring apparatus, comprising: at least one processor; and at least one **sensor** configured to sense position and **posture** of a wearer of the device; wherein the at least one processor receives and processes input from the at least one **sensor**, and where necessary, indicates the wearer's **posture** needs **correction**, and operates an alarm module to signal the wearer to **correct** the wearer's **posture**; wherein the apparatus is worn above the shoulders of the wearer.

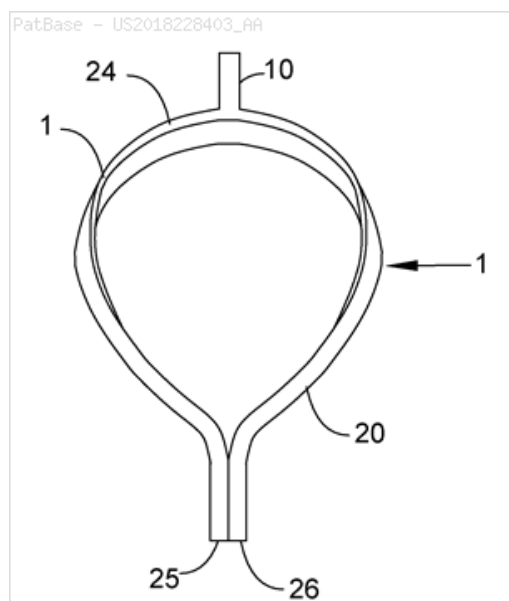
Classifications:

International (IPC 8-9): A61B5/00 A61B5/11 (Advanced/Invention)

CPC: A61B5/1116 A61B5/746 A61B5/7405 A61B2562/0219

A61B5/0004 A61B5/6822 A61B5/6823 A61B5/7455 A61B5/002

A61B5/1114 A61B2505/09



Family:

Publication number	Publication date	Application number	Application date
US2018228403 AA	20180816	US20170431638	20170213

Priority:

US20170431638 20170213

Probable Assignee:

LI CONGHUA

International (ipc 1-7): A47C4/54 B01J8/02 B60J7/00 B60N2/00 B60N2/02 B60N2/06 B60N2/06 B60N2/24 B60N2/26 B60N2/42 B60R19/20 B60R21/00 B60R21/01 B60R21/02 B60R21/32 B60R22/00 B60R27/00 B60R27/00 B62D21/15 B62D25/20 B62D27/00 C07D311/26 C07D405/10 C07D407/10
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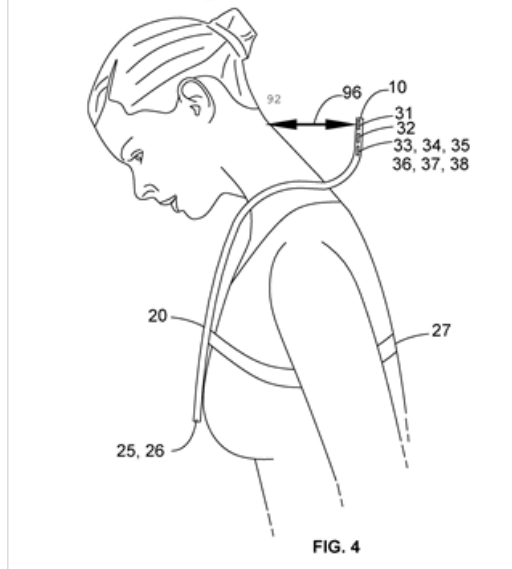
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Priority:

US19970936626	19970924	EP19980948260	19980917	WO1998US19260	19980917
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US20010332419P	20011114	US20010338466P	20011203	US20020109674	20020204
US20020357644P	20020220	US20020362450P	20020308	US20020367644P	20020326
US20020109674P	20020401	US20020109674	20020401	EP20020076388	20020402

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**Family:**

Publication number	Publication date	Application number	Application date
WO17137852 A2	20170817	WO20171B00246	20170213
WO17137852 A3	20170928	WO20171B00246	20170213

Priority:

US20160294544P 20160212 US20160310919P 20160321 US20160355475P 20160628

Probable Assignee: CONGHUA LI

Assignee(s): (std): CONGHUA LI

Inventor(s): (std): CONGHUA LI

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

12) Family number: 62175601 (US2017311874A)

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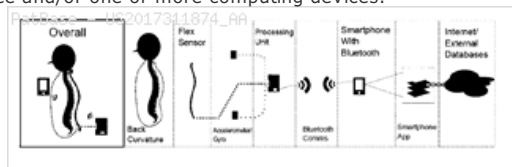
Title: IMPROVEMENTS TO POSITIONAL FEEDBACK DEVICES

Abstract: An apparatus comprising at least one **sensor** to detect the position and/or orientation of a body portion of a subject, the **sensor** in communication with a computing device to process **sensor** data and optionally a **transmitter** to **transmit sensor** data between the **sensor** and the computing device and/or one or more computing devices.

Classifications:

International (IPC 8-9): A61B A61B5/00 A61B5/06 A61B5/103 A61B5/11 G01C G01C1/00 G01D G01D5/165 G11C17/02 H01C H01C7/22 (Advanced/Invention)

CPC: A61B5/1116 A61B5/459 A61B2505/09 A61B2562/0261 A61B2562/028 G01B7/20 G01B11/18 A61B5/103 A61B5/11 A61B5/45 G01D5/165 A61B5/6822 A61B5/002 A61B5/6829 A61B5/6828 A61B5/6824 A61B5/0004 A61B5/486 A61B2562/0219 A61B5/4561 A61B5/4566 A61B5/4576 A61B5/458 A61B5/4585 A61B5/4595 A61B5/6823 A61B2562/043 A61B5/68335 A61B5/6832
US: 600/595

**Family:**

Publication number	Publication date	Application number	Application date
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AU2015333573 AA	20170323	AU20150333573	20151016
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US2017311874 AA	20171102	US20150513821	20151016
WO16058032 A1	20160421	WO2015AU00620	20151016

Priority:

AU20140250691 20141017 US20140065034P 20141017 AU20150901109 20150327
WO2015AU00620 20151016 US20150513821 20151016

Probable Assignee: ANDMINE PTY LTD

Assignee(s): (std): ANDMINE PTY LTD

Inventor(s): (std): KHUU BRIAN ; WONG ELAINE ; SIMONETTI MICHAEL ; DU JIAN ; HOFMAN XIN ; JIAN DU ; ELAINE WONG ; XIN HOFMAN ; BRIAN KHUU ; MICHAEL SIMONETTI

Agent(s): DUNCAN BUCKNELL CO PTY LTD; COOKSON BARBARA ELIZABETH; PANAWELL HONG KONG LTD; DUNCAN BUCKNELL CO

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

13) Family number: 32365608 (US2005245988A)

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Title: COLLECTING **POSTURE** AND ACTIVITY INFORMATION TO EVALUATE THERAPY

Abstract: A medical device, programmer, or other computing device may determine values of one or more activity and, in some embodiments, **posture** metrics for each therapy parameter set used by the medical device to deliver therapy. The metric values for a parameter set are determined based on signals generated by the **sensors** when that therapy parameter set was in use. Activity metric values may be associated with a postural category in addition to a therapy parameter set, and may indicate the duration and intensity of activity within one or more postural categories resulting from delivery of therapy according to a therapy parameter set. A **posture** metric for a therapy parameter set may indicate the fraction of time spent by the patient in various **postures** when the medical device used a therapy parameter set. The metric values may be used to evaluate the efficacy of the therapy parameter sets.

Classifications:

International (IPC 8-9): A61B5/00 A61N1/18 A61N1/34 A61N1/36 A61N1/372 (Advanced/Invention);

A61N1/365 A61N1/372 (Advanced/Non-invention);

A61B5/00 A61N1/18 A61N1/32 A61N1/36 (Core/Invention);

A61N1/365 A61N1/372 (Core/Non-invention)

International (IPC 1-7): A61N1/18 A61N1/36

CPC: A61B5/6804 A61N1/36071 A61B5/0205 A61B5/1116

A61N1/36082 A61N1/36585 A61B5/103 A61N1/0529 A61N1/0531

A61N1/0534 A61B5/6823 A61B5/6825 A61B5/686 A61N1/37235

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European: A61B5/0205 A61B5/103 A61B5/11P A61N1/36

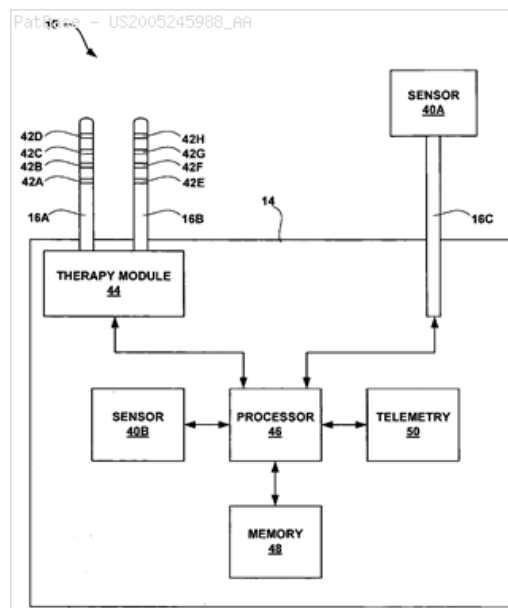
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K61N1/05K1D K61N1/365C K61N1/36Z K61N1/36Z3E

US: 600/300 600/300P 604/891.1 604/891.100S 607/19 607/2

607/27 607/45 607/45P 607/46 607/46P 607/48 607/49 607/59

607/62



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: MEDTRONIC INC

Assignee(s): (std): HERUTH KENNETH T ; MEDTRONIC INC ; MEDTRONIC INC D B A MEDTRONIC ; MIESEL KEITH A ; MOLNAR GREGORY F

Assignee(s): MEDTRONIC INC D B A MEDTRONIC MIDAS REX ; MEDTRONIC INC MINNEAPOLIS

Inventor(s): (std): MIESEL KEITH A ; HERUTH KENNETH T ; MOLNAR GREGORY F

Inventor(s): MIESEL KEITH ; HERUTH KENNETH ; MOLNAR GREGORY ; MIESEL KEITH A ST PAUL

Agent(s): Hughes Andrea Michelle; SHUMAKER AND SIEFFERT P A; MEDTRONIC INC; JOHN W; SHUMAKER AND SIEFFERT 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 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 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

14) Family number: 65469647 (US2018310883A)

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Title: METHOD AND DEVICE FOR RECORDING MOVEMENT IN A CONTINUOUS AREA

Abstract: A device for recording movement and/or **posture** in a continuous area comprising an elastic therapeutic tape substrate for application to a body part, the tape substrate comprising an elastic two dimensional conductor along which an

electrical current can flow to produce deformation data comprising change in resistance and/or capacitance as the elastic two dimensional conductor changes geometry in response to movement is described. The device may further comprise a data collection unit which receives the deformation data. Also described are a method and system for recording movement and/or posture in a continuous area comprising applying the elastic therapeutic tape substrate to a body part and producing deformation data comprising change in resistance and/or capacitance as the elastic two dimensional conductor changes geometry in response to movement to thereby record the movement in the continuous area.

Classifications:

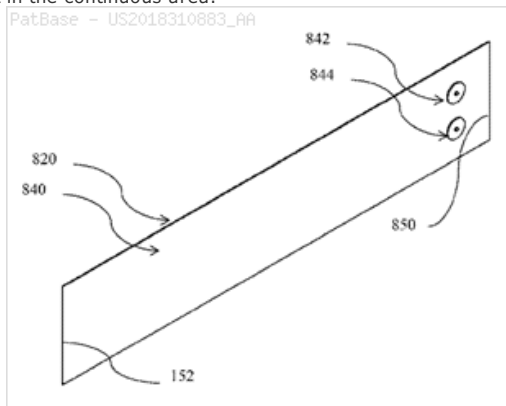
International (IPC 8-9): A61B5/00 A61B5/04

A61B5/11 (Advanced/Invention)

CPC: A61B5/6823 A61B5/7228 A61B2562/0271 A61B2560/0223

A61B2562/0219 A61B5/0004 A61B5/6833 A61B5/1116 A61B5/1118

A61B5/746 A61B2505/09 A61B2560/045 A61B2562/0261



Family:

Publication number	Publication date	Application number	Application date
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EP3361941 A1	20180822	EP20160854634	20161017
EP3361941 A4	20190313	EP20160854634	20161017
US2018310883 AA	20181101	US20160768398	20161017
WO17063030 A1	20170420	WO2016AU00358	20161017

Priority:

AU20150904233 20151016 WO2016AU00358 20161017

Probable Assignee: WEARABLE TECH PTY LTD

Assignee(s): (std): WEARABLE TECH PTY LTD

Assignee(s): WEARABLE TECHNOLOGIES PTY LTD

Inventor(s): (std): ROSENGARTEN SAMUEL DAVID ; FINLAYSON BRENTON GRANT ; FINLAYSON MITCHELL JARED

Agent(s): HOULIHAN² PTY LTD; D YOUNG AND CO LLP; WARDEN HUTTON PAUL DAVID

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

15) Family number: 65566654 (US2017123487A)

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Title: SYSTEM AND METHODS FOR ON-BODY GESTURAL INTERFACES AND PROJECTION DISPLAYS

Abstract: A wearable system with a gestural interface for wearing on, for instance, the wrist of a user. The system comprises an ultrasonic transceiver array structure and may comprise a pico projector display element for displaying an image on a surface. User anatomical feature inputs are received in the form of ultrasound signals representative of a spatio-temporal cross-section of the wrist of the user by articulating wrist, finger and hand postures, which articulations are translated into gestures. Inputs from inertial and other sensors are used by the system as part of the anatomical feature posture identification method and device. Gestures are recognized using a mathematically-modeled, simulation-based set of biological metrics of tissue objects, which gestures are converted to executable computer instructions. Embodiments of the system disclosed herein may also be used to monitor biometric and health data over computer networks or using onboard systems.

Classifications:

International (IPC 8-9): A63F13/00 G06F1/16 G06F17/10 G06F3/00

G06F3/01 G06F3/033 G06F3/0338 G06F3/0346 G06F3/0481

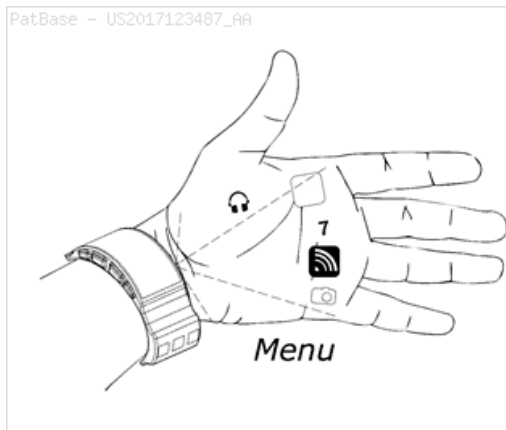
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H04W88/02 (Advanced/Invention)

CPC: G06F3/011 G06F1/163 G06F3/0346 G06F3/0482 G06F3/04817

G06F3/04845 G06F3/013 G06F3/015 G06F3/017 G06F3/005

G06F3/04812



Family:

Publication number	Publication date	Application number	Application date
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EP3368966 A1	20180905	EP20160861058	20161031
IN201847019468 A	20180601	IN201847019468	20180524
JP2018536933 T2	20181213	JP20180522056T	20161031

KR20180088390 A	20180803	KR20187014478	20161031
TW201727439 A	20170801	TW20160135225	20161031
US2017123487 AA	20170504	US20160338189	20161028
WO17075611 A1	20170504	WO2016US59777	20161031

Priority:

US20150249021P 20151030 US20160338189 20161028 WO2016US59777 20161031

Probable Assignee: OSTENDO TECHNOLOGIES INC

Assignee(s): (std): OSTENDO TECH INC ; OSTENDO TECHNOLOGIES INC

Inventor(s): (std): HAZRA SIDDHARTH S ; EL GHOROURY HUSSEIN S

Agent(s): ZENZ PATENTANWALTE PARTNERSCHAFT MBB; YAMAKAWA MASAKI; VINCENT LESTER 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 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

16) Family number: 58582667 (US2015142381A)

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Title: COMPUTER ASSISTED ERGONOMIC WORKSTATION DESIGNS AND METHODS

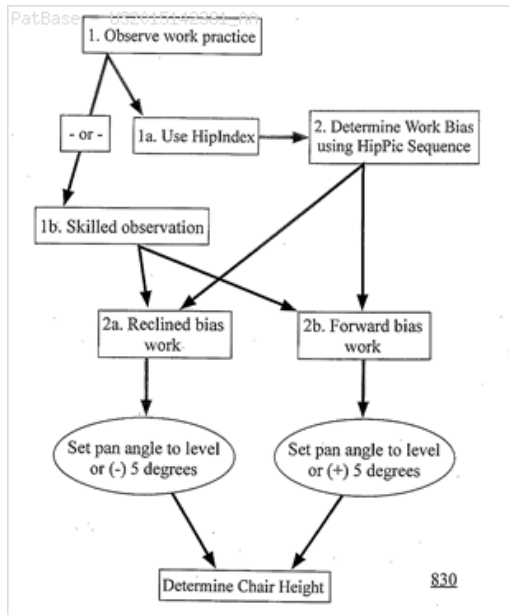
Abstract: Aspects of this invention include new measures of hip-torso **posture** and strength of the legs. These new measures are made using new tools. Measurement of hip-torso **posture** can be made using simple tools. One such tool can be applied to the hips, and indicates relative angle of the spine. Photographic tools can be used to analyze **posture** relative to vertical references. Measurement of leg strength can be made using a device incorporating **accelerometers** and computer implemented instructions to quantify forward/backward, left/right, or rotational acceleration when the legs are challenged. Other aspects include devices with computer implemented instructions to quantify leg strength. Using the new devices and methods, one can objectively determine **postures** that are ergonomically appropriate for persons sitting and working at workstations.

Classifications:

International (IPC 8-9): A47C3/20 A47C31/12 A47C7/00 A47C7/62 G01B21/02 G01B21/16 G01P15/00 G06F19/00 (Advanced/Invention)

CPC: A47C3/20 G01P15/00 A47C7/006 A47C31/126 G06F19/3481 G16H20/40

US: 702/166



Family:

Publication number	Publication date	Application number	Application date
US2015142381 AA	20150521	US20140519797	20141021
US10078096 BB	20180918	US20140519797	20141021
WO15026697 A1	20150226	WO2014US51430	20140818

Priority:

US20130867231P 20130819 US20130876670P 20130912 US20130876870P 20130912
WO2014US51430 20140818 US20140519797 20141021

Probable Assignee: FITZSIMMONS AND ASSOCIATES

Assignee(s): (std): FITZSIMMONS AND ASS ; FITZSIMMONS AND ASSOCIATES ; FITZSIMMONS JOHN ; KOUZNETSOV ALEXANDER

Assignee(s): ERGONOMICS FIRST INC

Inventor(s): (std): KOUZNETSOV ALEXANDER ; FITZSIMMONS JOHN

Agent(s): BORSON D BENJAMIN; BORSON LAW GROUP PC; BORSON BENJAMIN 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 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

17) Family number: 52813695 (US2013015976A)

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Title: SYSTEM AND METHOD OF BIOMECHANICAL **POSTURE** DETECTION AND FEEDBACK

Abstract: A system and method are described herein for a **sensor** device which biomechanically detects in real-time a user's movement state and **posture** and then provides real-time feedback to the user based on the user's real-time **posture**. The feedback is provided through immediate sensory feedback through the **sensor** device (e.g., a sound or vibration) as well as through an avatar within an associated application with which the **sensor** device communicates.

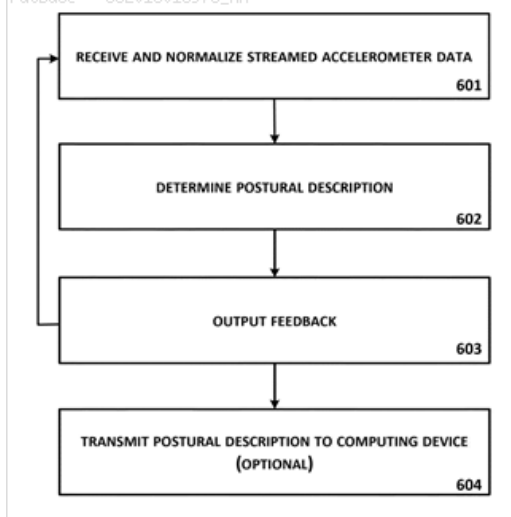
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CPC: A61B5/0002 A61B5/067 A61B5/1121 A61B5/4561 A61B5/486 G01P15/00 A61B5/11 G08B21/0446 G08B21/182 A61B5/0022 A61B2562/0219 A61B5/1116 A61B5/6823 G06F3/011 A61B5/7455

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PatBase - US2013013976_AA



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Publication number	Publication date	Application number	Application date
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Probable Assignee: SEISMIC HOLDINGS INC

Assignee(s): (std): CHANG ANDREW ROBERT ; HAUENSTEIN ANDREAS MARTIN ; LUMO BODYTECH INC ; PERKASH MONISHA ; ZERO2ONE ; WANG C CHARLES ; SEISMIC HOLDINGS INC

Assignee(s): WANG C ; VENTURE LENDING AND LEASING VI INC ; VENTURE LENDING AND LEASING VII INC ; ZERO2ONE INC ; LUMO LLC

Inventor(s): (std): HAUENSTEIN ANDREAS MARTIN ; PERKASH MONISHA ; CHANG ANDREW ROBERT ; WANG C CHARLES ; WANG CHUNG CHE CHARLES

Inventor(s): WANG C

Agent(s): GARD AND KASLOW LLP; BRIAN; ALPINE PATENTS LLC; VAN COURT AND ALDRIDGE LLP; GARD V RANDALL

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

18) Family number: 60104710 (WO16146862A1)

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Title: DEVICE FOR CONTROLLING **POSTURE** AND MOVEMENT OF THE LUMBAR SPINE

Abstract: The invention relates to a belt in the form of a strip, which has a base and a narrowing towards one of the two ends. Five **sensors** arranged in the central part and corresponding to the lumbar vertebrae are connected to said strip, as well as one **sensor** arranged on each side of the belt and corresponding to each rear end of the trunk, one on the upper part and the other on the lower part. Said **sensors**, with the necessary electronic components, are connected to a surrounding box comprising the common electronics for all of the **sensors**. Applications that can be installed on PCs, mobiles and tablets have been developed for the feedback of the data. Software has also been developed for both Android and IOS environments. In this way, the device can be managed via **Bluetooth** from mobile devices or other and also allows the use

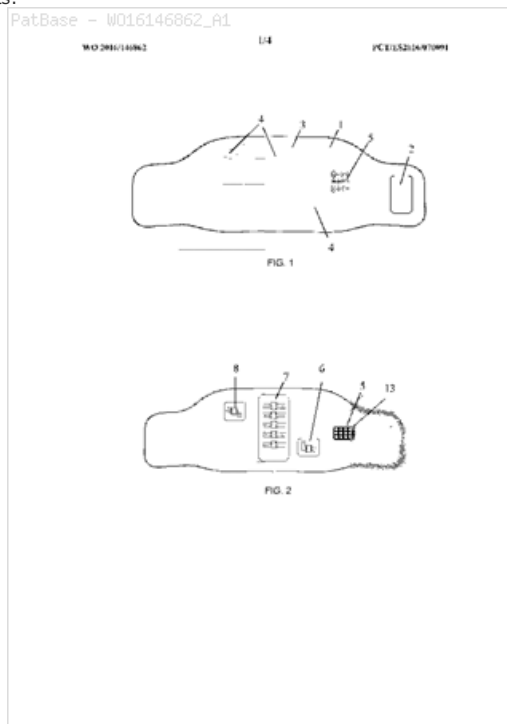
of the own services of same such as feedback or notification elements.

Classifications:

International (IPC 8-9): A61B5/11 G01C19/00 G01D11/30

G01P15/00 (Advanced/Invention)

CPC: A61B5/1126 G01C19/00 G01D11/30 G01P15/00 A61B5/11



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Publication number	Publication date	Application number	Application date
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Priority:

ES20150030361 20150318

Probable Assignee: UNIV ALICANTE

Assignee(s): (std): UNIV ALICANTE

Assignee(s): UNIVERSIDAD DE ALICANTE

Inventor(s): (std): CORTELL TORMO JUAN MANUEL

Inventor(s): JUAN MANUEL CORTELL TORMO

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

19) Family number: 32171719 (US2006229164A)

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Title: APPARATUSES FOR RETROFITTING EXERCISE EQUIPMENT AND METHODS FOR USING SAME

Abstract: An exercise apparatus, comprising: a resistance element, operative to supply a resistance to movement by a user of the apparatus; and, an actuator module operatively connected to the resistance element and operative to vary a resistance perceived by the user without changing the resistance element.

Classifications:

International (IPC 8-9): A63B23/16 A47D13/04 A61B19/00

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A63B26/00 A63B71/00 A63B71/06 (Advanced/Non-invention);

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H01R29/00 (Core/Invention);

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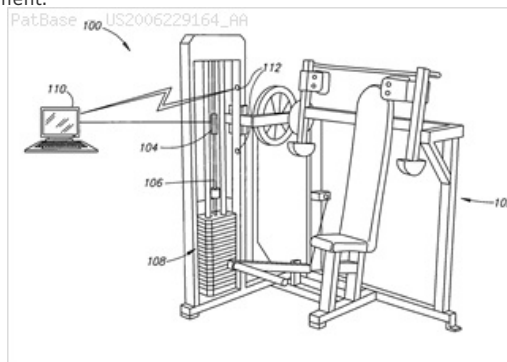
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US2009062698 AA	20090305	US20080289402	20081027
US2009221928 AA	20090903	US20050660965	20050818
US2014296750 AA	20141002	US20140305178	20140616
US2015141773 AA	20150521	US20150599618	20150119
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US8938289 BB	20150120	US20050660965	20050818
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WO05074372 A2	20050818	WO2005IL00141	20050204
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WO05105203 A1	20051110	WO2005IL00442	20050428
WO06021952 A2	20060302	WO2005IL00906	20050818
WO06021952 A3	20060727	WO2005IL00906	20050818
WO06061834 A2	20060615	WO2005IL01318	20051207
WO06061834 A3	20061116	WO2005IL01318	20051207
WO06082584 A2	20060810	WO2006IL00140	20060205
WO06082584 A3	20070322	WO2006IL00140	20060205

Priority:

US20040542022	20040205	US20040542022P	20040205	US20040566079P	20040429
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US20040604615P	20040825	US20040633428P	20041207	US20040633429P	20041207
US20040633442P	20041207	EP20050703179	20050204	JP20060552013	20050204
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US20050568463	20050428	WO20051L00442	20050428	US20050686991P	20050602
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US20060348128	20060206	US20060389773	20060327	US20070597671	20070604
US20070597633	20070706	US20080597602	20080508	US20080597635	20080508
US20080597605	20080603	US20080289402	20081027	US20090660965	20090108
US20140305178	20140616	US20150599618	20150119	US20180055268	20180806

Probable Assignee: MOTORIKA LTD**Assignee(s):** (std): BINYAMINI GAD ; EINAV HAIM ; EINAV OMER ; FARAN SAMUEL ; KATZIR ERAN ; KORENMAN ERNESTO ; MAHONEY RICHARD M ; MOTORIKA INC ; MOTORIKA LTD ; REABILITY INC ; ROUSSO BENNY ; SHABANOV DORON ; ZOHAR ESTER ; TYLERTON INTERNAT INC ; TYLERTONE INTERNAT INC ; TYLERTONE INT INC ; TYLERTON INT INC**Assignee(s):** SANDLEFORD PARK SECURITY AGENT AS LTD ; TYLERTON INTERNATIONAL INC ; TYLERTON INT ; TYLERTONE INT ; MOTORIKA MEDICAL INC ; TYLERTONE INTERNATIONAL INC ; MOTORIKA LIMITED ; KATZIR ERAN AND ; MEDINVEST CAPITAL SA RL ; MORGAN STANLEY BANK INT ; MEDINVEST CAPITAL RL SA ; MORGAN STANLEY BANK INT LTD ; REABILITY INC EINAV OMER**Inventor(s):** (std): EINAV OMER ; EINAV HAIM ; ROUSSO BENNY ; SHABANOV DORON ; KATZIR ERAN ; BINYAMINI GAD ; KORENMAN ERNESTO ; FARAN SAMUEL ; MAHONEY RICHARD M ; ZOHAR ESTER ; OMER EINAV ; GAD EINAV OMER EINAV HAIM ROUS**Inventor(s):** ERAN KATZIR ; BENNY ROUSSO ; HAIM EINAV ; DORON SHABANOV ; GAD BINYAMINI ; EINAV OMER EINAV HAIM ROUSSO BENNY SHABANOV DORON KATZIR ERAN BINYAMINI GAD ; EINAV OMER EINAV HAIM ROUSSO BENNY SHABANOV**Agent(s):** MCCARTHY TETRAULT LLP; OGILVY RENAULT LLP SENCRL SRL; VAN WESTENBRUGGE ANDRIES; KORENBERG ALEXANDER TAL; DORSCHNER DAVID; DENNEMEYER AND ASSOCIATES SA; WOLF BLOCK SCHORR AND SOLIS-COHN LLP; WOLF BLOCK SCHORR AND SOLIS COHN LLP; MARTIN D MOYNIHAN PRISI INC; MARTIN D MOYNIHAN D B A PRISI INC; PRISI; MARTIN D MOYNIHAN PRISI**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**20) Family number: 48464727** (US2011063114A)

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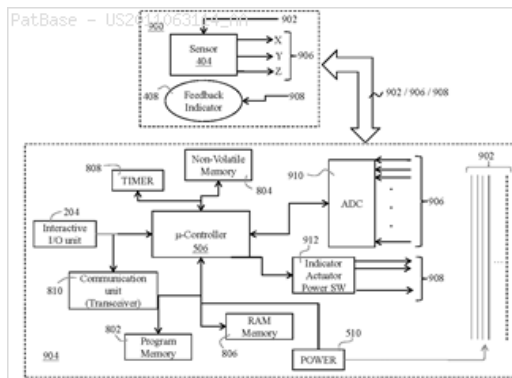
Title: **POSTURE** TRAINING DEVICE**Abstract:** Sensory indication modules intimately associated with a surface for detection of angle relative to true vertical and acceleration, and include feedback indicators for communicating localized information in relation to the detected angle and acceleration. Further included is a control module for communicating command and control instructions with the sensory indication modules.**Classifications:****International (IPC 8-9):** G08B23/00 (Advanced/Invention)**CPC:** A63B23/0244 A63B21/4007 A63B21/4025 A63B2071/0655

A63B2220/16 A63B2220/836 A63B2225/50 A63B2230/62

A61B5/4561

European: A63B21/14A4 A63B21/14D2 A63B23/02S K63B220/16

K63B220/83C K63B225/50 K63B230/62 K63B71/06D5

US: 340/573.7 340/573.700P**Family:**

Publication number	Publication date	Application number	Application date
US2011063114 AA	20110317	US20090560173	20090915
US8217797 BB	20120710	US20090560173	20090915

Priority:

US20090560173 20090915

Probable Assignee:

IKOYAN DIKRAN

Assignee(s): (std):

IKOYAN DIKRAN

Inventor(s): (std):

IKOYAN DIKRAN

Agent(s):

MILORD A

21) Family number: 62153730 (US2016110986A)

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Title: **POSTURE** IMPROVEMENT DEVICE, SYSTEM, AND METHOD

Abstract: A **posture** improvement device, system, and method. The system for improving **posture** may comprise: a **sensor** device; **posture** improvement software program, comprising a **posture** improvement system interface; and one or more user devices. The **sensor** device may be physically associated with a user and may communicate with the **posture** improvement software program. The **sensor** device may comprise: one or more **sensors** for monitoring positions and movements of the user. The system may calculate one or more optimum postural positions for the user, based on data communicated by the **sensor** device and collected information about the user. The system may monitor a conformance of the user with the optimum postural positions and may display the conformance on the **posture** improvement system interface. The system may detect and notify the user of one or more non-conformances, such that a user is reminded to maintain at least one optimum postural position.

Classifications:

International (IPC 8-9): A61B A61B5/00 A61B5/103 A61B5/107

A61B5/11 A63B23/02 G08B21/00 G08B21/04

G08B23/00 (Advanced/Invention);

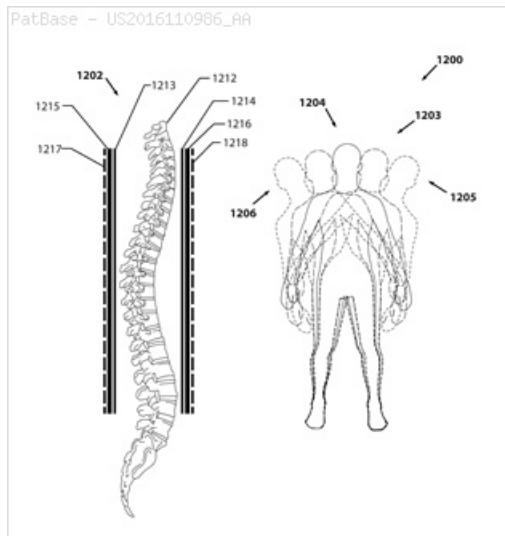
A61B (Subclass/Invention)

CPC: A61B5/103 A61B5/1116 A61B5/486 A61B5/74 A61B5/4561

A63B23/0244 A63B2225/50 A61B5/4836 G16H40/63 G16H20/30

G16H20/70 G16H50/20

US: 340/573.7



Family:

Publication number	Publication date	Application number	Application date
AU2015336097 AA	20170511	AU20150336097	20151020
CA2965139 AA	20170419	CA20152965139	20151020
CN107072543 A	20170818	CN201580057527	20151020
EP3209205 A1	20170830	EP20150851787	20151020
EP3209205 A4	20180725	EP20150851787	20151020
HK1236081 A1	20180323	HK20170109939	20170929
IL251781 A0	20170629	IL20150251781	20151020
IL264357 A0	20190303	IL20190264357	20190121
IL264357 A1	20190530	IL20190264357	20190121
IL264505 A0	20190303	IL20190264505	20190128
JP2017531532 T2	20171026	JP20170522420T	20151020
KR20170072888 A	20170627	KR20177010566	20151020
US2016110986 AA	20160421	US20150918334	20151020
US2017340245 AA	20171130	US20170676137	20170814
US2018192920 AA	20180712	US20180914136	20180307
US2018344214 AA	20181206	US20180055621	20180806
US2019246955 AA	20190815	US20190393483	20190424
US9763603 BB	20170919	US20150918334	20151020
US10064572 BB	20180904	US20180914136	20180307
US10307083 BB	20190604	US20180055621	20180806
WO16064905 A1	20160428	WO2015US56504	20151020

Priority:

US20140066800P 20141021 US20150918334 20151020 WO2015US56504 20151020
US20170676137 20170814 US20180914136 20180307 US20180055621 20180806
US20190393483 20190424

Probable Assignee: ROSENBLOOD KENNETH

Assignee(s): (std): ROSENBLOOD KENNETH ; ROSENBLOOD KENNETH LAWRENCE

Inventor(s): (std): ROSENBLOOD KENNETH LAWRENCE

Agent(s): PIPERS; R WILLIAM WRAY AND ASSOCIATES; ISERN JARA NURIA; HUEN CHI CHUNG; DR MARK FRIEDMAN LTD; HAMADA HARUO; KEVIN; HANKIN PATENT LAW APC; ANOOJ; SCHRAVEN KEVIN; PATEL ANOOJ; HANKIN MARC 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

22) Family number: 55898730 (WO14035922A2)

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Title: **POSTURE** TRAINING DEVICE

Abstract: A **posture** training device for monitoring **posture** is disclosed. The **posture** training device comprises at least a first measuring circuit unit attached to a first position on a user's body, and a second measuring circuit unit attached to a second position on the user's body. Each measuring circuit unit comprises an **accelerometer**, gyroscope, and magnetometers. Further the **accelerometers**, gyroscopes, and magnetometers generate a signal received by a computing platform unit. Any improper **posture** is indicated to the user by an alarm signal generated by the computing platform unit.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/107 A61B5/11 A61N1/02

A63B23/02 A63B24/00 (Advanced/Invention);
A63B71/06 H04M1/725 (Advanced/Non-invention)
CPC: A61B5/6823 A61B5/1071 A61B5/1116 A61B5/6831
A61B5/7267 A61B5/7455 A61B2560/0209 A61B2562/0219
A61B2562/06 A63B23/0244 A63B24/0062 A63B24/0087
A63B2071/0655 A63B2071/0683 A63B2220/13 A63B2220/16
A63B2220/24 A63B2220/40 A63B2220/836 A63B2220/89
A63B2225/50 H04M1/72522

PatBase - W014035922_A2

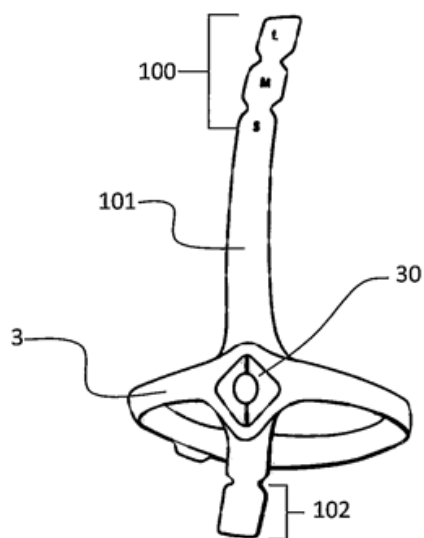


FIG. 11A

Family:

Publication number	Publication date	Application number	Application date
EP2928543 A2	20151014	EP20130833006	20130827
EP2928543 A4	20170104	EP20130833006	20130827
WO14035922 A2	20140306	WO2013US56718	20130827
WO14035922 A3	20150625	WO2013US56718	20130827

Priority:

US20120693415P 20120827 US20120696934 20120827 WO2013US56718 20130827

Probable Assignee: CUEVAS JOSE A

Assignee(s): (std): CUEVAS JOSE A

Inventor(s): (std): CARBIA EDUARDO A ; CUEVAS JOSE A ; NOGUEIRA SALGUEIRO MARTIN ; PAZOS SIERRA ALEJANDRO CELESTINO ; RABUNAL DOPICO JUAN RAMON

Agent(s): BALDER IP LAW SL; TORRES OYOLA EUGENIO

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

23) Family number: 63143735 (US2018007983A)

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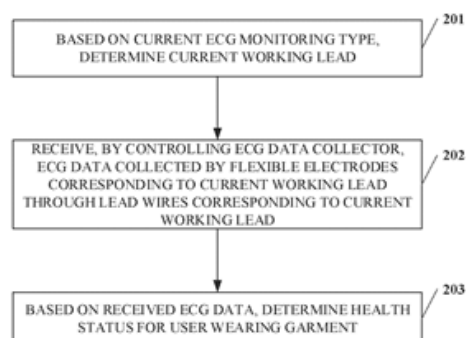
Title: GARMENT AND CARDIAC DATA PROCESSING

Abstract: A method for processing electrocardiograph (ECG) data using a garment includes determining, by a processor, a current working lead from ECG leads formed in advance using flexible electrodes in the garment based on a current ECG monitor type, and receiving, by the processor through lead wires corresponding to the current working lead, ECG data collected by flexible electrodes corresponding to the current working lead. A wearable apparatus for processing ECG data includes at least two flexible electrodes, in which the at least two flexible electrodes are capable of forming different leads based on predetermined configurations, at least two lead wires, and an ECG data collector configured to receive ECG data collected by the at least two flexible electrodes, in which each of the at least two flexible electrodes connects to the ECG data collector via at least one of the at least two lead wires.

Classifications:

International (IPC 8-9): A41D1/00 A41D13/12 A61B5/00
A61B5/0205 A61B5/04 A61B5/0402 A61B5/0404 A61B5/0408
A61B5/0428 A61B5/044 A61B5/0452 A61B5/046 A61B5/0464
A61B5/0472 A61B5/11 A61N1/02 A61N1/04
A61N1/39 (Advanced/Invention)
CPC: A61B5/0402 A61B5/6804 A41D13/1281 A61B5/04023
A61B5/0428 A61B2562/0219 A61B5/0006 A61B5/04085 A61B5/1102
A61B5/04012 A61B5/0404 A61B5/1117 A61B5/0205 A61B5/04525
A61B5/044 A61B5/0022 A61B5/4836 A61B5/746 A61B5/747
A61N1/3987 A61N1/025 A61B2562/0209 A41D1/002 A61B5/046
A61B5/0464 A61B5/0472 A61B5/6805 A61B5/11 A61B5/1116
A61B5/7264 A61N1/046 A61N1/0484 A61B5/1123 A61B5/6802

PatBase - US2018007983_AA



Family:

Publication number	Publication date	Application number	Application date
CN105832328 A	20160810	CN201610150885	20160315
CN108113663 A	20180605	CN201711242765	20171130
US2018007983 AA	20180111	US20170677671	20170815
US2018146922 AA	20180531	US20160364743	20161130
US10123741 BB	20181113	US20160364743	20161130
WO17157187 A1	20170921	WO2017CN075572	20170303

Priority:

CN201610150885 20160315 US20160364743 20161130 WO2017CN75572 20170303
WO2017CN075572 20170303 US20170677671 20170815

Probable Assignee: ANHUI HUAMI INFORMATION TECH CO LTD

Assignee(s): (std): ANHUI HUAMI INFORMATION TECH CO LTD ; HUAMI INC

Assignee(s): ANHUI HUAMI INFORMATION TECHNOLOGY CO ; ANHUI HUAMI INFORMATION TECHNOLOGY CO LTD ; ANHUI HUAMI INFORMATION TECHNOLOGY COLTD ; CHINA INFORMATION TECHNOLOGY CO LTD
ANHUI METERS

Inventor(s): (std): HUANG WANG ; ZHAO YAJUN ; WANG HUI ; WANG YUCHEN ; WANG YUANXIANG ; WANG FEI

Agent(s): YOUNG BASILE HANLON AND MACFARLANE PC ; BEIJING BESTIPR INTELLECTUAL PROPERTY LAW
CORP

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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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

24) Family number: 61841747 (US2016066820A)

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Title: WEARABLE GAIT MONITORING APPARATUS, SYSTEMS, AND RELATED METHODS

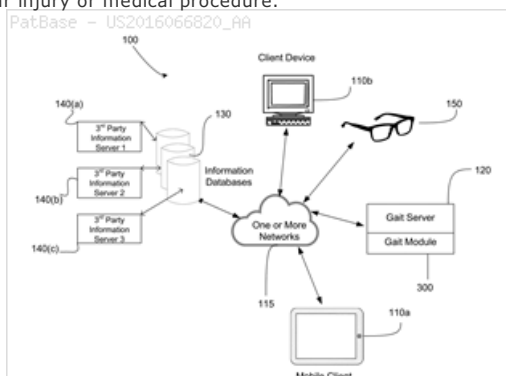
Abstract: A system, according to various embodiments, includes eyewear (or any other suitable wearable device) that includes one or more **sensors** (e.g., one or more **accelerometers**, magnetometers, position **sensors**, gyroscopes, and/or other suitable **sensors**) that may be used to monitor the gait of an individual (e.g., by monitoring the movement of the user's head, or other portions of the user's body, as the user ambulates). The system may further include one or more suitable computing devices for analyzing the individual's gait. This information may then be used, for example, to: (1) identify one or more medical conditions associated with the individual; (2) assess the fit of a prosthetic device worn by the individual, and/or (3) assess an individual's recovery from a particular injury or medical procedure.

Classifications:

International (IPC 8-9): A61B3/10 A61B3/11 A61B5/00 A61B5/02
A61B5/0205 A61B5/024 A61B5/0402 A61B5/0476 A61B5/05
A61B5/08 A61B5/103 A61B5/11 A61B5/117 A61B5/1171 A61B5/145
A61B5/1455 A61B5/16 A61B5/18 A61B7/04 A61F2/76 A61J7/04
A63B24/00 G01D21/02 G02B27/01 G02C1/00 G02C11/00 G02C5/14
G06F19/00 G06F21/32 G06F21/35 G06K9/00 G06K9/62 G07C9/00
G08B21/02 G08B21/04 G09B19/00 G09B5/00 G09B5/06 G16H20/40
G16H40/63 G16H50/20 G2B27/01 G6F21/35 G6K9/00 H04L29/06
H04W84/18 (Advanced/Invention);
A61B5/0205 A61B5/024 A61B5/053 A61B5/08 A61F2/76
G02C11/00 (Advanced/Non-invention)

CPC: A61B5/6803 A61B5/165 G09B5/00 A61B5/4266 A61B5/0476
A61B5/443 A61B5/1032 A61B5/0402 A61B7/04 A61B5/7278
A61B5/4884 A61B5/486 A61B5/7246 A61B5/4076 A61B5/1176
A61B5/024 A61B5/1116 A61B5/0022 A61B5/1114 A61B5/1128
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G08B21/0423 G06K9/00664 G06K9/6201 G08B21/0476
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A61F2/76 G06F19/3481 A61B5/18 A61B2503/22 B60Y2302/07 A61B3/112 G07C9/00158 G02C11/10 G06K9/00348
G06K9/00597 G06K9/00604 A61F2002/7695 H04L63/0861 G16H40/63 G16H50/20 G06K9/00684 G06K9/00885 G08B21/02
G08B21/06 A61B5/117 A61B5/02438 A61B5/112 A61B5/0002 A61B2576/00 G06F19/00 G16H20/40 A61B5/14552
A61B2562/0219 G06F21/35

US: 340/573.1 351/158 434/127 600/301 600/306 600/307 600/324 600/476 600/508 600/529 600/544 600/558 600/595

**Family:**

Publication number	Publication date	Application number	Application date
CA2953856 AA	20161229	CA20152953856	20150904
CA2960425 AA	20170306	CA20152960425	20150904
CA2960429 AA	20170306	CA20152960429	20150904
EP3148435 A1	20170405	EP20150838411	20150904
EP3148435 A4	20180117	EP20150838411	20150904
EP3189367 A1	20170712	EP20150838234	20150904
EP3189367 A4	20180530	EP20150838234	20150904
EP3189371 A1	20170712	EP20150839047	20150904
EP3189371 A4	20180530	EP20150839047	20150904
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US2016066829 AA	20160310	US20140578039	20141219
US2016066847 AA	20160310	US20150610439	20150130
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US2016070122 AA	20160310	US20150610628	20150130
US2016071390 AA	20160310	US20140562454	20141205
US2016071423 AA	20160310	US20150610589	20150130
US2017245757 AA	20170831	US20170594898	20170515
US2017265798 AA	20170921	US20170611574	20170601

US2018042523 AA	20180215	US20170791196	20171023
US2019159700 AA	20190530	US20190259646	20190128
US9649052 BB	20170516	US20140588122	20141231
US9795324 BB	20171024	US20140562454	20141205
US10188323 BB	20190129	US20170594898	20170515
US10307085 BB	20190604	US20150610439	20150130
WO16037091 A1	20160310	WO2015US48612	20150904
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WO16037120 A1	20160310	WO2015US48662	20150904

Priority:

US20140046406P	20140905	US20140550406	20141121	US20140562454	20141205
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Probable Assignee: VISION SERVICE PLAN

Assignee(s): (std): VISION SERVICE PLAN

Assignee(s): WORKMAN MATTHEW ALLEN ; KLOSINSKI RICHARD CHESTER JR ; MURPHY MEGHAN KATHLEEN ; SALES JAY WILLIAM ; STEEN MATTHEW DAVID

Inventor(s): (std): SALES JAY WILLIAM ; WORKMAN MATTHEW ALLEN ; MURPHY MEGHAN KATHLEEN ; KLOSINSKI JR RICHARD CHESTER ; STEEN MATTHEW DAVID ; KLOSINSKI RICHARD CHESTER JR

Inventor(s): KLOSINSKI JR

Agent(s): DANIELS IP SERVICES LTD; SMART AND BIGGAR; BLACK DIEGO; WILLIAMS DAVID JOHN; BRIENT GLOBERMAN LLC; SCOTT E; KYLE M; BRIENT IP LAW LLC; GLOBERMAN KYLE M; BRIENT SCOTT 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

25) Family number: 42802772 (US2009018409A)

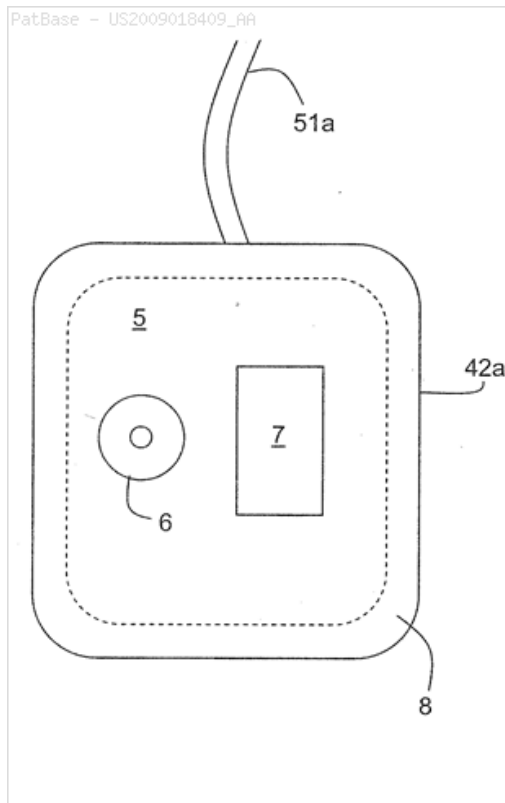
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Title: DEVICE FOR DETERMINING RESPIRATORY RATE AND OTHER VITAL SIGNS

Abstract: A body-worn **sensor** that measures respiratory rate and other vital signs using an acoustic **sensor** (e.g., a small-scale **sensor**). The body-worn **sensor** features a chest-worn patch **sensor** that combines both the acoustic **sensor** and an ECG electrode into a single **adhesive** patch. To measure blood pressure, the device additionally performs a 'composite' PTT-based measurement that features both pressure-dependent and pressure-free measurements. The acoustic **sensor** measures respiration rate by recording sounds related to the patient's inspiration and expiration. The acoustic **sensor** is typically placed near the patient's trachea, but can also be placed on the middle right and left side of the chest, and the middle right and left side of the **back**.

Classifications:

International (IPC 8-9): A61B A61B5/00 A61B5/02 A61B5/021 A61B5/022 A61B5/024 A61B5/0245 A61B5/0402 A61B5/0408 A61B5/08 A61B5/11 A61B5/1455 A61B5/1477 (Advanced/Invention); A61B5/0205 A61B5/021 A61B5/022 A61B5/0245 A61B5/0452 A61B5/08 A61B5/11 (Advanced/Non-invention); A61B5/00 A61B5/08 (Core/Invention); A61B (Subclass/Invention)
CPC: A61B5/02225 A61B5/0245 A61B5/1117 A61B5/1118 A61B5/14551 A61B5/7207 A61B2562/0219 A61B5/7239 A61B5/1116 A61B5/002 A61B5/0022 A61B5/0816 A61B5/02055 A61B5/022 A61B5/0408 A61B5/1455 A61B5/6826 A61B5/6838 A61B5/7225 A61B5/7257 A61B5/726 A61B7/04 A61B2560/0412 A61B2560/0462 A61B2560/0468 A61B5/0002 A61B5/0823 A61B5/021 A61B5/0452 A61B5/14552 A61B5/681 A61B5/6824 A61B5/721 A61B5/746 G16H40/67
European: A61B5/022C A61B5/0408 A61B5/08R A61B5/11P A61B5/11Q A61B5/1455N A61B5/1455N2 A61B5/68B1H A61B5/68B2J1 A61B5/68B3L A61B5/72B2 A61B7/04 K61B5/00B K61B5/0205B K61B5/021 K61B5/022 K61B5/022C K61B5/0245 K61B5/0452 K61B5/08R K61B5/11P K61B5/11P2 K61B5/1455 K61B5/68B2H K61B5/72F K61B5/72K10B K61B5/72K10D K61B560/04B2 K61B560/04L K61B560/04L2 K61B562/02C
US: 600/300 600/301 600/301P 600/310 600/323 600/323P 600/324 600/324P 600/336 600/483 600/484 600/509 600/509S 600/587 600/595 600/595S



Family:

Publication number	Publication date	Application number	Application date
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SG10201404148W A1	20140926	SG20141004148	20100617
SG11201402137Q A1	20140627	SG20141102137	20121109
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US2009018409 AA	20090115	US20080171886	20080711
US2010324384 AA	20101223	US20090559413	20090914
US2010324385 AA	20101223	US20090559379	20090914
US2010324386 AA	20101223	US20090559386	20090914
US2010324387 AA	20101223	US20090559392	20090914
US2010324388 AA	20101223	US20090559403	20090914
US2010324389 AA	20101223	US20090559408	20090914
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US2014088385 AA	20140327	US20130092173	20131127
US2018042495 AA	20180215	US20170723039	20171002
US2019029534 AA	20190131	US20180148874	20181001
US2019029536 AA	20190131	US20180148948	20181001
US8437824 BB	20130507	US20090559408	20090914
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US9775529 BB	20171003	US20090559386	20090914
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WO13071014 A2	20130516	WO2012US64302	20121109
WO13071014 A3	20140828	WO2012US64302	20121109

Priority:

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US20080138194	20080612	US20080073681P	20080618	US20080171886	20080711
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US20170723039	20171002	US20180148874	20181001	US20180148948	20181001

Probable Assignee: SOTERA WIRELESS INC

Assignee(s): (std): BANET MATT ; BANET MATTHEW J ; DHILLON MARSHAL ; DHILLON MARSHAL SINGH ; TRIAGE WIRELESS INC ; TERRY ANDREW STANLEY ; KOPOTIC ROBERT J ; DHILLON MARSHALL SINGH ; SOTERA WIRELESS INC ; MCCOMBIE DEVIN ; MOON JIM ; SOTERA WIRELESS INC ; ZHOU ZHOU ; VISSER HENK II ; VISSER II HENK

Inventor(s): (std): TERRY ANDREW S ; VISSER II HENK ; DHILLON MARSHAL SINGH ; BANET MATTHEW J ; ZHOU ZHOU ; KOPOTIC ROBERT J ; TERRY ANDREW STANLEY ; DHILLON MARSHALL SINGH ; VISSER HENK II ; BANET MATTHEW ; BANET MATT M ; MCCOMBIE DEVIN D ; MOON JIM J ; DHILLON MARSHALL M ; DHILLON MARSHALL ; DHILLON MARSHALL ; DHILLON MARSHAL ; MOON JIM ; BANET MATT ; MCCOMBIE DEVIN

Agent(s): SCHIWECK WOLFRAM; SCHIWECK WEINZIERL AND KOCH; P C WOO AND CO; MCLAUGHLIN IP PTE LTD; WILMERHALE/TRIAGE WIRELESS; WILMERHALE TRIAGE WIRELESS; BIOTECHNOLOGY LAW GROUP,12707 HIGH BLUFF DRIVE; BIOTECHNOLOGY LAW GROUP 12707 HIGH BLUFF DRIVE; MICHAEL A; ACUITY LAW GROUP P C; ACUITY LAW GROUP PC; WHITTAKER MICHAEL A; PRAHL ERIC L ET AL; WHITTAKER MICHAEL A 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

26) Family number: 60451772 (US2015272481A)

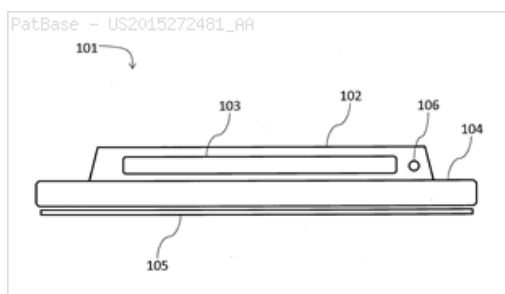
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Title: **ACCELEROMETER** AND WIRELESS NOTIFICATION SYSTEM

Abstract: The present disclosure provides methods and devices for managing health conditions associated with **posture**. The devices can be configured to monitor patient body angles and alert caregivers when measurements are outside a recommended range for the health condition. The methods and devices can facilitate patient compliance and assist caregivers in adhering to action plans.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/107
A61B5/11 A61B5/145 G06F19/00 (Advanced/Invention);
A61B5/01 A61B5/021 A61B5/024 A61B5/05 A61B5/08 A61B5/107
A61B5/113 A61B5/145 G06F19/00 (Advanced/Non-invention)
CPC: A61B5/1116 A61B5/0205 A61B5/0022 A61B2562/0219
A61B2505/07 A61B5/024 A61B5/05 A61B5/0816 A61B2560/0475
A61B5/1071 A61B5/1121 A61B5/14542 A61B5/6804 A61B5/742
A61B5/746 G06F19/3481 A61B5/01 A61B5/021 A61B5/1135
G06F19/3418
US: 600/301 600/595



Family:

Publication number	Publication date	Application number	Application date
US2015272481 AA	20151001	US20150675105	20150331
US9706950 BB	20170718	US20150675105	20150331
WO15153676 A1	20151008	WO2015US23697	20150331

Priority:

US20140972841P 20140331 US20150675105 20150331

Probable Assignee: ANGULUS CORP

Assignee(s): (std): ANGULUS CORP

Inventor(s): (std): GLASER FRANK ; GAMARNIK VIKTOR ; KARLIN DANIEL

Agent(s): WILSON SONSINI GOODRICH AND ROSATI; KENESKY CRAIG S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN 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

27) Family number: 66086780 (US2018360325A)

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Title: OBSERVATIONAL HEART FAILURE MONITORING SYSTEM

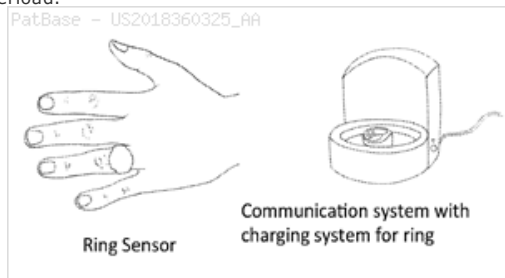
Abstract: Method and systems provide for reliable, convenient, and cost-effective personalized assessment of hemodynamic status in the ambulatory heart failure patient. The method and apparatus use pulse contour analysis of data obtained through observation of the patient for determination of hemodynamic status, and for determination of day-to-day changes in hemodynamic status. Observational assessment of the patient includes monitoring during activities of daily living including sleeping, sitting and standing. These activities create changes in venous return that are used to evaluate cardiac function or changes in cardiac function. The method and system infer body position by using position and motion information obtained by the system. Changes in cardiac function over time or due to changes in body pose are evaluated for the assessment of hemodynamic status, with a focus on changes resulting from fluid overload.

Classifications:

International (IPC 8-9): A61B A61B5/00 A61B5/02 A61B5/0205 A61B5/021 A61B5/024 A61B5/0245 A61B5/026 A61B5/029 A61B5/0295 A61B5/0402 A61B5/0452 A61B5/091 A61B5/107 A61B5/11 A61B5/113 A61B7/00 (Advanced/Invention); A61B5/11 (Advanced/Non-invention); A61B (Subclass/Invention)

CPC: A61B5/02125 A61B5/02416 A61B5/0452 A61B5/091 A61B5/1116 A61B5/113 A61B5/4561 A61B5/02427 A61B5/1126 A61B5/0205 A61B5/029 A61B7/00 A61B5/02028 A61B5/02405 A61B5/1118 A61B5/4812 A61B5/6826

US: 600/479

**Family:**

Publication number	Publication date	Application number	Application date
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CA3007501 AA	20180605	CA20163007501	20161206
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EP3386380 A1	20181017	EP20160873671	20161206
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EP3386382 A2	20181017	EP20160873673	20161206
EP3386382 A4	20190731	EP20160873673	20161206
IL259830 A0	20180731	IL20160259830	20161206
IL259841 A0	20180731	IL20160259841	20161206
IN201817023847 A	20181116	IN201817023847	20180626
JP2019503824 T2	20190214	JP20180549136T	20161206
KR20180090338 A	20180810	KR20187018985	20161206
US2018360325 AA	20181220	US20160780401	20161206
WO17100185 A1	20170615	WO2016US65135	20161206
WO17100188 A2	20170615	WO2016US65140	20161206
WO17100188 A3	20170727	WO2016US65140	20161206

Priority:

US20150263839P 20151207 US20160375431P 20160815 US20160423701P 20161117
 WO2016US65135 20161206 WO2016US65140 20161206 US20160780401 20161206

Probable Assignee: MEDICI TECH LLC

Assignee(s): (std): MEDICI TECH LLC

Assignee(s): MEDICI TECHNOLOGIES LLC ; ROBINSON MARK RIES ; ALLEN ELENA A

Inventor(s): (std): ALLEN ELENA A ; ROBINSON MARK RIES

Agent(s): BORDEN LADNER GERVAIS LLP; LEE NICHOLAS JOHN; INABA YOSHIYUKI; GRAFE V GERALD; GRAFE GERALD V

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

28) Family number: 55366782 (US2013336519A)

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Abstract: This invention is a wearable, automatic, and tamper-resistant device and method for monitoring and measuring food consumption and caloric intake. It can help people to manage their energy balance and weight. It can be embodied as: (a) one or more automatic-imaging members that are worn on a person from which these members collectively and automatically take pictures of the person's mouth and pictures of a reachable food source when the person eats; (b) a tamper-resisting mechanism which detects and responds if the operation of the one or more automatic-imaging members is impaired; and (c) an image-analyzing member which automatically analyzes pictures of the person's mouth and pictures of the reachable food source in order to estimate the types and quantities of food that are consumed by the person.

Classifications:

International (IPC 8-9): A41B1/08 A41B7/00 A41D13/12 A41D27/10 A41D27/20 A44C5/00 A44C9/00 A47G21/02 A61B19/00 A61B5/00 A61B5/01 A61B5/0205 A61B5/026 A61B5/03 A61B5/04 A61B5/0402 A61B5/0476 A61B5/0478 A61B5/0482 A61B5/0488 A61B5/053 A61B5/107 A61B5/11 A61B5/117 A61B5/145 A61B5/1455 A61B5/1468 A61B5/1477 A61B7/00 A61B7/04 A61B90/00 A61F5/00 A61M1/12 A61M21/00 A61M31/00 A61M5/142 A61M5/172 A61N1/365 A61N1/372 A61N2/00 A61N2/02 G01B11/25 G01B7/16 G01J3/02 G01J3/10 G01J3/28 G01N21/25 G01N21/27 G01N21/33 G01N21/35 G01N21/3554 G01N33/02 G01R27/02 G06F1/16 G06F17/00 G06F19/00 G06F3/01 G06F3/03 G06F3/0346 G06F3/044 G06K9/00 G06K9/22 G06T1/00 G06T7/00 G09B19/00 G09B5/00 G09B5/02 G16H20/60 H04N7/18 (Advanced/Invention);

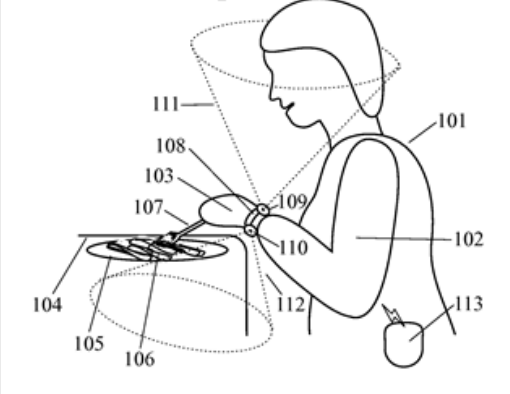
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IPC: G06K9/00771 G06K9/228 A61B5/7285 A61B5/0075

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PatBase - US2013336519_AH



Family:

Publication number	Publication date	Application number	Application date
US2013336519 AA	20131219	US20120523739	20120614
US2014081578 AA	20140320	US20120616238	20120914
US2014276546 AA	20140918	US20130797955	20130312
US2014347491 AA	20141127	US20130901099	20130523
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US20180022987	20180629	US20180150469	20181003		

Probable Assignee: MEDIBOTICS LLC

Assignee(s): (std): BEHYMER JEDIDIAH ; CONNOR ROBERT A ; HARDYMAN MATTHEW ; HERICKS MATT ; MEDIBOTICS LLC ; HOMMER GARRISON ; LOPEZ GUS ; SMIDA JOHN ; OLSON TYLER ; STEIN ALEX ; VALENCIA DANIEL ; WONG ERIC

Inventor(s): (std): WONG ERIC ; VALENCIA DANIEL ; STEIN ALEX ; SMIDA JOHN ; OLSON TYLER ; LOPEZ GUS ; HOMMER GARRISON ; HERICKS MATT ; HARDYMAN MATTHEW ; BEHYMER JEDIDIAH ; CONNOR ROBERT A

29) Family number: 63859783 (US2016310064A)

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Title: WEARABLE **POSTURE** ADVISORY SYSTEM

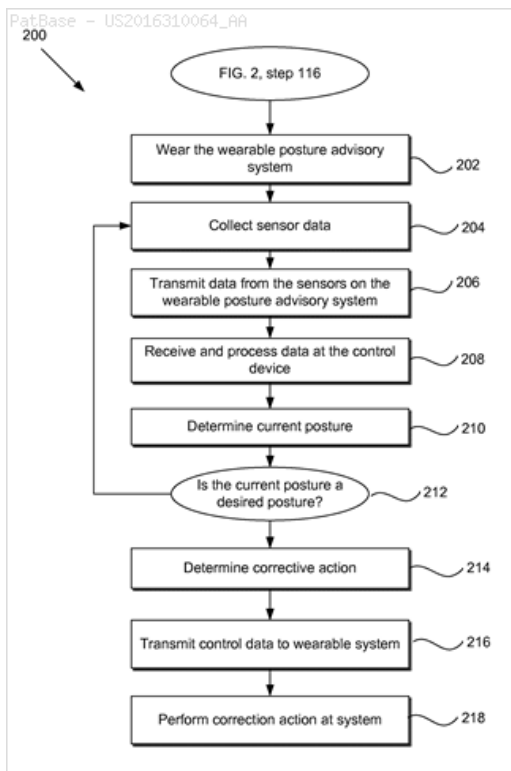
Abstract: In one aspect, a method for formulating a wearable **posture** advisory system will be described. A three dimensional body model of at least a part of a body of a user is obtained. A model for 3D printing a wearable **posture** advisory system is generated based on the 3D body model. The system model models one or more **sensors** that are arranged to help determine a **posture** of a user and one or more actuators that are arranged to help instruct the user to adjust his or her **posture**. The system model is provided to a 3D printer so that the 3D printer can print the wearable **posture** advisory system. Various embodiments relate to devices, arrangements and executable computer code that are associated with the above method.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/103 A61B5/107 A61B5/11 A61B5/117 B29C67/00 G05B19/4099 G06F17/50 G06T15/08 G06T17/20 (Advanced/Invention); A61B5/107 A61F5/02 A63B23/02 B29C67/00 B33Y50/02 B33Y80/00 G08B21/04 (Advanced/Non-invention)

CPC: A61B5/4561 A61B5/1116 A61B5/486 G05B2219/35134

G05B2219/49007 B33Y50/02 A61B5/1036 A61B5/1071 G06T17/205
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B29C67/0088 A61B2562/0219 B29C64/386 A61B5/0064 A61B5/7455
G05B19/4099
US: 1/1 600/594



Family:

Publication number	Publication date	Application number	Application date
EP3286675 A1	20180228	EP20160783356	20160411
EP3286675 A4	20180502	EP20160783356	20160411
KR20160125881 A	20161101	KR20160032760	20160318
US2016310064 AA	20161027	US20150693705	20150422
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WO16171422 A1	20161027	WO2016KR03771	20160411

Priority:

US20150693705 20150422 KR20160032760 20160318 WO2016KR03771 20160411

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): CHENG DOREEN

Agent(s): HGF LTD; BEYER LAW GROUP LLP; YOON DONG YOL

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 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

30) Family number: 68730830 (US2018126158A)

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Title: SYSTEMS AND METHODS FOR FUNCTIONAL RESTORATION AND REHABILITATION OF **POSTURE**, GAIT AND MOVEMENT

Abstract: A wearable electrical stimulation system for improving a motor function of a patient after the patient has a stroke. The system is deployed by positioning one stimulation unit on the head patient in electrical communication with a first portion of the patient's brain, positioning a second stimulation unit on a region of the patient comprising muscles requiring motor function improvement, and using a controller to activate the first stimulation unit and second stimulation unit. Upon activation, the first stimulation unit applies electrical stimulation to the first portion of the patient's brain and upon activation the second stimulation unit applies electrical stimulation to the first region of the patient. A system comprising a plurality of **sensors** for monitoring and improving the functions such as **posture**, movement, gait of a limb or a body portion is also disclosed.

Classifications:

International (IPC 8-9): A61B5/103 A61B5/11

A61N1/36 (Advanced/Invention)

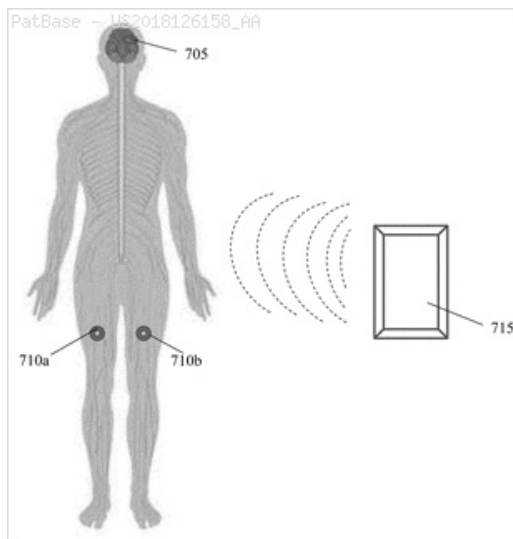
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A61B5/4023 A61B5/7405 A61B5/742 A61B5/7455 A61N1/36003

A61N1/3603 A61B5/486 G16H40/67

US: 607/48



Family:

Publication number	Publication date	Application number	Application date
US2018126158 AA	20180510	US20170682993	20170822
WO18039183 A1	20180301	WO2017US47934	20170822

Priority:

US20160377744P 20160822 US20170682993 20170822

Probable Assignee: LYRIQ LLC

Assignee(s): (std): LYRIQ LLC

Assignee(s): ELIRA INC

Inventor(s): (std): PEREZ RAUL E ; HOGG BEVIL

Agent(s): DALAL SONA

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

31) Family number: 53735835 (US2014358193A)

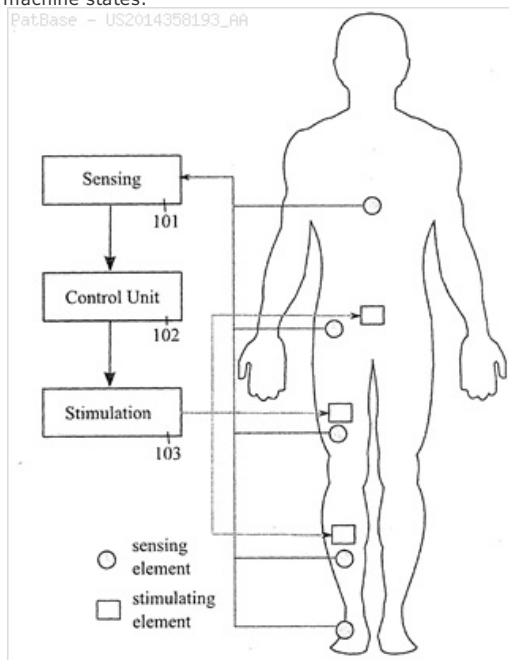
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Title: APPARATUS AND METHODS FOR PREVENTION OF SYNCOPE

Abstract: A monitoring system has biomechanical **sensors**, physiological **sensors** and a controller which receive sensory inputs from the **sensors** to provide output signals for the output device, and it detects from the sensory inputs risk of a syncopal event. The bio-mechanical **sensors** include **sensors** arranged to allow the processor to detect a user **postures** and **posture** transitions. The processor operates a finite state machine, in which there is a state corresponding to each of a plurality of user physical **postures** and to each of a plurality of transitions between said **postures**, and the processor determines a relevant state depending on the sensory inputs. A device output may be muscle stimulation to prevent syncope, and there are stimulation permissions associated with the finite state machine states.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/0245 A61B5/0402 A61B5/0488 A61B5/11 A61N1/04 A61N1/05 A61N1/36 A61N1/365 A61N1/372 A61N1/378 (Advanced/Invention); A61B5/024 A61B5/08 A61B5/11 (Advanced/Non-invention) **CPC:** A61B5/0205 A61B5/0402 A61B5/0488 A61B5/1116 A61B5/7275 A61N1/37229 A61N1/3787 A61B5/024 A61B5/08 A61N1/0484 A61B5/0245 A61B5/0816 A61B5/1117 A61B5/1123 A61B2562/0219 A61N1/365 A61N1/36535 A61N1/36542 A61N1/36139 A61N1/0456 A61N1/0452 A61N1/0556 A61N1/36014 A61N1/3606 A61N1/36003 **US:** 1/1 607/48 607/61



Family:

Publication number	Publication date	Application number	Application date
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EP2775915 A1	20140917	EP20120791571	20121109
EP2775915 B1	20181205	EP20120791571	20121109
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WO13069004 A1	20130516	WO20121E00049	20121109

Priority:

IE20110000491 20111111 WO20121E00049 20121109 US20140357331 20140509
US20160193927 20160627

Probable Assignee: LYONS DECLAN

Assignee(s): (std): LYONS DECLAN ; NAT UNIV IRELAND ; NAT UNIV IRELAND GALWAY ; NAT UNIV OF IRELAND GALWAY ; QUINN COLIN ; NATIONAL UNIV OF IRELAND GALWAY

Assignee(s): NATIONAL UNIVERSITY OF IRELAND GALWAY ; OF IRELAND GALWAY UNIV

Inventor(s): (std): QUINN COLIN ; LYONS DECLAN ; BREEN PAUL ; DEEGAN BRIAN ; QUONDAMATTEO FABIO ; O LAIGHIN GEAROID

Agent(s): WELDON MICHAEL JAMES; STUDEBAKER AND BRACKETT PC; OBRIEN JOHN A 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

32) Family number: 58631881 (US2015065919A)

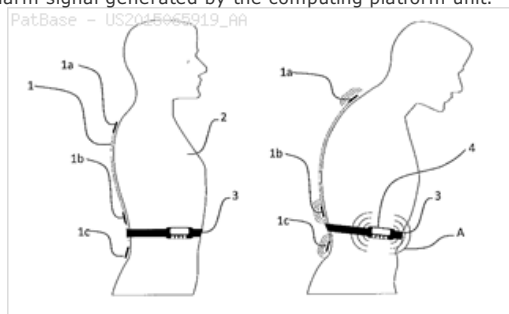
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Title: POSTURE TRAINING DEVICE

Abstract: A posture training device for monitoring posture is disclosed. The posture training device comprises at least a first measuring circuit unit attached to a first position on a user's body, and a second measuring circuit unit attached to a second position on the user's body. Each measuring circuit unit comprises an accelerometer, gyroscope, and magnetometers. Further the accelerometers, gyroscopes, and magnetometers generate a signal received by a computing platform unit. Any improper posture is indicated to the user by an alarm signal generated by the computing platform unit.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/11 (Advanced/Invention)
CPC: A61B5/1116 A61B5/1121 A61B5/1126 A61B5/6823 A61B5/746
A63B23/0244 A63B2071/0655 A63B2220/16 A63B2220/40
A63B2220/836 A63B2220/89 A63B2225/50
US: 600/587



Family:

Publication number	Publication date	Application number	Application date
US2015065919 AA	20150305	US20130011053	20130827

Priority:

US20130011053 20130827

Probable Assignee: CARBIA EDUARDO A

Assignee(s): (std): CARBIA EDUARDO A ; CUEVAS JOSE ANTONIO

Inventor(s): (std): CARBIA EDUARDO A ; CUEVAS JOSE ANTONIO

33) Family number: 55622884 (US2014015687A)

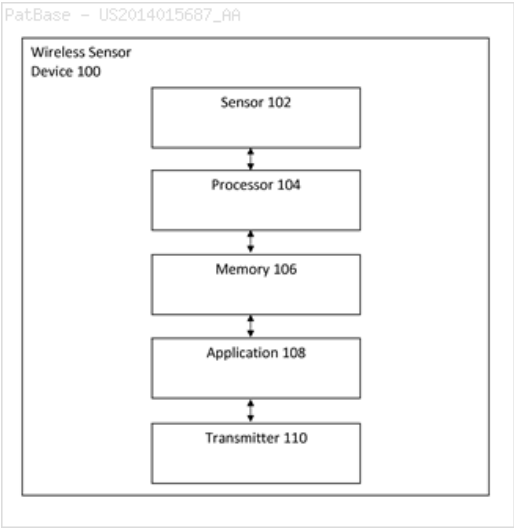
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Title: POSTURE CALIBRATION FOR ACTIVITY MONITORING

Abstract: A method and system for activity monitoring of a user are disclosed. In a first aspect, the method comprises calibrating posture by the user to determine a calibration vector. The method includes validating the calibration vector by comparing an anteroposterior axis to a threshold, wherein activity of the user is monitored using the validated calibration vector. In a second aspect, a wireless sensor device comprises a processor and a memory device coupled to the processor, wherein the memory device includes an application that, when executed by the processor, causes the processor to receive a posture calibration request from the user and to determine a calibration vector based on the received request. The application, when executed by the processor, further causes the processor to validate the calibration vector by comparing an anteroposterior axis to a threshold, wherein activity of the user is monitored using the validated calibration vector.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/11 G01B21/22 G01C25/00
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G06F17/00 G06F17/40 G06F19/00 G07C1/00 G08B29/00 G08C17/02
G16H40/63 (Advanced/Invention);
A61B5/00 A61B5/103 A61B5/11 A61N1/00 G01D21/00 G01N33/48
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CPC: G01C25/00 G08C17/02 A61B5/0002 A61B5/1116 A61B5/1118
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G06F17/40 G06F19/00 G07C1/00 A61B5/1115 A61B5/1121
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A61B5/4809 G01P21/00 G06F17/00 A61B5/6823 G16H40/63
A61B5/6801 A61B5/7282 G01B21/22



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: VITAL CONNECT INC

Assignee(s): (std): FERDOSI NIMA ; NARASIMHAN RAVI ; VITAL CONNECT INC

Assignee(s): PERCEPTIVE CREDIT OPPORTUNITIES FUND LP ; PERCEPTIVE CREDIT OPPORTUNITIES GP LLC

Inventor(s): (std): SELVARAJ NANDAKUMAR ; DOAN TOAI ; CHAN ALEXANDER ; FERDOSI NIMA ; NARASIMHAN RAVI

Agent(s): SAWYER LAW GROUP PC; BRUNDIDGE AND STANGER PC; SAWYER JOSEPH A JR

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 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