

1) Family number: 50117335 (US2011305369A)

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Title: PORTABLE WIRELESS MOBILE DEVICE MOTION CAPTURE AND ANALYSIS SYSTEM AND METHOD

Abstract: Portable wireless mobile device motion capture and analysis system and method configured to display motion capture/analysis data on a mobile device. System obtains data from motion capture elements and analyzes the data. Enables unique displays associated with the user, such as 3D overlays onto images of the user to visually depict the captured motion data. Ratings associated with the captured motion can also be displayed. Predicted ball flight path data can be calculated and displayed. Data shown on a time line can also be displayed to show the relative peaks of velocity for various parts of the user's body. Based on the display of data, the user can determine the equipment that fits the best and immediately purchase the equipment, via the mobile device. Custom equipment may be ordered through an interface on the mobile device from a vendor that can assemble-to-order customer built equipment and ship the equipment. Includes active and passive golf shot count capabilities.

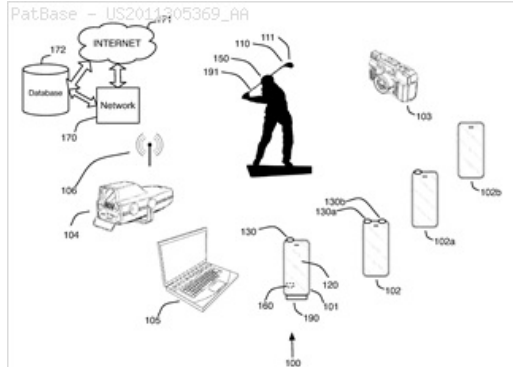
Classifications:

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US: 1/1 248/219.4 248/219.400S 29/407.05 312/223.1 340/509 340/572.1 340/572.100S 340/669 340/669S 343/841 345/156 345/156S 345/419 348/139 348/139P 348/143 348/157 348/169 348/46 348/47 348/77 348/E7.085 348/E70.85S 361/679.01 361/679.010P 361/728 382/103 382/103P 382/107 382/107S 386/201 386/223 386/227 386/240 386/241 386/248 455/556.1 455/556.100P 463/3 463/31 463/31P 463/39 463/4 463/40 463/41 463/42 473/131 473/199 473/219 473/221 473/222 473/222P 473/223 473/223P 473/226 473/227 473/266 473/316 473/407 473/453 473/461 473/461S 473/513 473/524 473/560 473/564 482/1 482/1S 700/90 700/90P 700/91 702/104 702/104S 702/141 702/145 702/92 702/92P 702/94 702/94S 702/95 702/95S 702/96 702/96S 73/431 D10/74 D21/796 D3/218

Locarno class: 21/02 10/04

Family:

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Priority:

US20100866882	20100826	US20100868882	20100826	US20100901806	20101011
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US20170585609	20170503	US20170590398	20170509	US20170590511	20170509
WO2017US52114	20170918	US20170812926	20171114	US20170820312	20171121
US20170824998	20171128	US20180866382	20180109	US20180166490	20181022
US20180196676	20181120	US20190460961	20190702	US20190512631	20190716

Probable Assignee: BLAST MOTION INC

Assignee(s): (std): BOSE BHASKAR ; GOREE JOHN ; KAPS RYAN ; FITZPATRICK MICHAEL ; HAAS JUERGEN ; BENTLEY MICHAEL ; BLAST MOTION INC ; SCARBO JOE ; LOHR SCOTT

Assignee(s): ABDEL RAHMAN MAZEN ; ALAM SHEEHAN ; BLAST MOTION INC BURLINGAME ; BLAST MOTION INC401 - 345 LORTON AVENUEBURLINGAMECA94010US ; HAYNES TIM ; GILLIAN MICHAEL ; BLAST MOTION INC ENCINITAS ; CAPS RYAN ; GUPTA PIYUSH ; ESTREM BRIAN

Inventor(s): (std): GOREE JOHN ; KAPS RYAN ; FITZPATRICK MICHAEL ; SCARBO JOSEPH ; HAYNES TIM ; SCARBO JOE ; LOHR SCOTT ; HAAS JUERGEN ; ABDEL RAHMAN MAZEN ; GILLIAN MICHAEL ; ALAM SHEEHAN ; ESTREM BRIAN ; BENTLEY MCHAE ; GUPTA PYUSH ; MARTIN JOSHUA ; GILLEN MICHAEL ; GUPTA PIYUSH ; BOSE BHASKAR ; BENTLEY MICHAEL

Inventor(s): GOREE JOHNUS ; HAYNES TIMUS ; GOREE JOHN BURLINGAME ; BOSE BHASKAR BURLINGAME ; GUPTA PIYUSH BURLINGAME ; BOSE BHASKAR CARLSBAD ; BENTLEY MICHAEL ENCINITAS ; CAPS RYAN ; KAPS RYANUS ; BOSE BHASKARUS ; BENTLEY MICHAELUS

Agent(s): COLLISON AND CO; CREATEIP; ENGFIELD PROFESSIONAL CORP; VALADARES LAW PROFESSIONAL CORP; SMITHS IP; SCHMITT NILSON SCHRAUD WAIBEL WOHLFROM PATENTANWAELTE PARTNERSCHAFT MBB; PURDYLUCEY INTELLECTUAL PROPERTY; LUCEY MICHAEL; CARMODY MARK;

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 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

2) Family number: 60461645 (US2015289822A)

© PatBase

Title: SYSTEMS, DEVICES, AND METHODS FOR TRACKING ABDOMINAL ORIENTATION AND ACTIVITY

Abstract: The various embodiments herein relate to systems, devices, and methods for tracking abdominal orientation and activity for purposes of preventing or treating conditions of pregnancy or other types of medical conditions. In certain specific embodiments, the system, device, or method relates to identifying abdominal orientation risk values, calculating and updating a cumulative risk value, comparing the cumulative risk value to a threshold, and outputting a warning when the cumulative risk value crosses the threshold.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/021 A61B5/053 A61B5/06 A61B5/08 A61B5/103 A61B5/107 A61B5/11 A61B5/145 A61B5/1455 G06F1/16 (Advanced/Invention); A61B5/00 A61B5/021 A61B5/06 A61B5/08 A61B5/11 A61B5/145 A61B5/1455 (Advanced/Non-invention)

CPC: A61B5/746 A61B5/4343 A61B5/7275 G06F1/163 A61B5/1072 A61B5/1075 A61B5/1107 A61B5/1114 A61B5/1116 A61B5/14552 A61B5/6823 A61B5/6831 A61B2503/02 A61B5/02411 A61B5/0022 A61B5/4362 A61B5/6804 A61B5/0077 A61B5/021 A61B5/08 A61B5/1073 A61B5/0059 A61B5/053 A61B5/065 A61B5/067 A61B5/1117 A61B5/4356 A61B2562/0219 A61B5/1118 A61B5/1121 A61B5/14542 G16H40/63 G16H50/30

US: 1/1 600/301 600/473 600/588

PatBase - US2015289822_AA



Family:

Publication number	Publication date	Application number	Application date
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US2015289822 AA	20151015	US20150663453	20150320
US2015305668 AA	20151029	US20150625965	20150219
US2016374608 AA	20161229	US20160194223	20160627
US2018132778 AA	20180517	US20170855578	20171227
US2018303405 AA	20181025	US20180926176	20180320
US9585614 BB	20170307	US20150625965	20150219
US9763616 BB	20170919	US20160194223	20160627
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Priority:

US20140971438P 20140327	US20140986665P 20140430	US20140022060P 20140708
US20140059557P 20141003	US20150111427P 20150203	US20150625965 20150219
WO2015US16540 20150219	US20150663453 20150320	US20150185309P 20150626
US20150237971P 20151006	US20150244869P 20151022	US20160288659P 20160129
US20160194223 20160627	US20170855578 20171227	US20180926176 20180320

Probable Assignee: SMART HUMAN DYNAMICS INC

Assignee(s): (std): BELLYBIT INC ; DUGAN STEPHEN ; SMART HUMAN DYNAMICS INC

Inventor(s): (std): DUGAN STEPHEN

Agent(s): AIRD AND MCBURNEY LP; APPELYARD LEES IP LLP; DAVID BROWN KOEHN SHORS AND ROBERTS PC; SEAN D; DAVIS BROWN KOEHN SHORS AND ROBERTS PC; SOLBERG SEAN

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

3) Family number: 42674658 (US2008312709A)

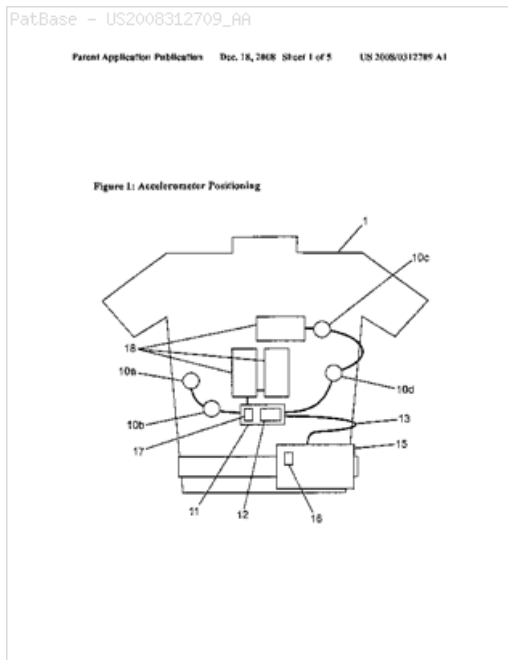
PatBase

Title: WEARABLE MEDICAL TREATMENT DEVICE WITH MOTION/POSITION DETECTION

Abstract: A wearable defibrillator consists of a vest (or belt) which is worn by the patient. The device monitors the patient's ECG with sensing electrodes and can monitor other patient conditions and in appropriate cases can treat certain conditions. An accelerometer(s) in the wearable defibrillator can allow for the device to determine the position, movements, forces applied to the patient, and/or the device. The device can use a least one patient motion detector generating a signal indicative of patient activity. Analysis of the signal can be indicative of patient activity appropriate for treatment or indication of device condition.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/04 A61B5/0402 A61B5/0404 A61B5/0408 A61B5/044 A61B5/0452 A61B5/0478 A61B5/05 A61B5/107 A61B5/11 A61B5/1455 A61N1/00 A61N1/04 A61N1/08 A61N1/36 A61N1/365 A61N1/37 A61N1/372 A61N1/39 G16H40/63 G16H50/20 (Advanced/Invention); A61B5/021 A61B5/024 A61B5/0408 A61B5/08 A61B5/1455 A61N1/365 A61N1/372 (Advanced/Non-invention); A61B5/107 A61B5/11 A61N1/362 A61N1/365 A61N1/39 (Core/Invention)
CPC: A61B5/4818 A61B5/6804 A61B2562/0219 A61N1/3993 A61B5/0404 A61B5/1116 A61B5/1118 A61B5/1123 A61B5/0006 A61B5/0205 A61B5/04012 A61B5/044 A61B5/0452 A61B5/4836 A61B5/7282 A61N1/046 A61N1/3904 A61B5/02055 A61B5/021 A61B5/02438 A61B5/04085 A61B5/0816 A61B5/11 A61B5/1112 A61B5/1117 A61B5/1455 A61B5/6805 A61B5/721 A61B2560/045 A61N1/0484 A61N1/36535 A61N1/36542 A61N1/36585 A61N1/37247 A61N1/37258 G16H40/63 G16H50/20 A61N1/39 A61N1/3987
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US: 1/1 600/301 607/5 607/6 607/62 607/62P 607/6P 607/7



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Publication number	Publication date	Application number	Application date
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US9398859 BB	20160726	US20140180775	20140214
US9737262 BB	20170822	US20160010778	20160129
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WO12006524 A1	20120112	WO2011US43360	20110708

Priority:

US20070934404P	20070613	US20070002469	20071217	JP20080146005	20080603
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US20170649739	20170714	US20170850435	20171221	US20190297808	20190311

Probable Assignee: ZOLL MEDICAL CORP

Assignee(s): (std): BRADEN WADE ; DONNELLY EDWARD J ; KAIB THOMAS E ; LINDER MARSHAL ; LINDER MARSHAL W ; ZOLL MEDICAL CORP ; VOLPE SHANE S ; MACHO JOHN D ; WHITING JASON T ; SZYMKEWICZ STEVEN J ; VOLPE SHANE

Inventor(s): (std): VOLPE SHANE S ; MACHO JOHN D ; LINDER MARSHAL ; BRADEN WADE ; KAIB THOMAS E ; DONNELLY EDWARD J ; LINDER MARSHAL W ; WHITING JASON T ; SZYMKEWICZ STEVEN J ; VOLPE SHANE ; THOMAS E KAIB ; JASON T WHITING ; MARSHAL W LINDER ; SHANE VOLPE

Inventor(s): MARSHAL LINDER ; SHANE S VOLPE ; WADE BRADEN ; JOHN D MACHO

Agent(s): SCHWAN SCHWAN SCHORER ; SANTARELLI ; ASAMURA KIYOSHI ; YOSHIDA YUTAKA ; ASAMURA HAJIME ; MORI TOHRU ; FUKAMI PATENT OFFICE PC ; RYUKA IP LAW FIRM ; BUCHANAN INGERSOLL AND ROONEY PC ; LANDO AND ANASTASI LLP ; LANDO AND ANATASI LLP ; ZOLL MEDICAL CORP ; LANDO PETER 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 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

4) Family number: 33975438 (US2007015976A)

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Title: CORRELATING A NON-POLYSOMNOGRAPHIC PHYSIOLOGICAL PARAMETER SET WITH SLEEP STATES

Abstract: Values of a non-polysomnographic (non-PSG) physiological parameter set may be correlated to polysomnographically (PSG) determined sleep states. The correlated values of the non-PSG parameter set and sleep states may be analyzed, and a relationship between the values and sleep states may be determined. The relationship may allow determination of sleep states for any given patient based on values of the non-PSG physiological parameter set for the patient. The non-PSG physiological parameter set does not include physiological parameters typically required for PSG, such as brain electrical activity (EEG), eye movement (EOG), and jaw or neck muscular activity or tone (EMG). Medical devices, such as implantable medical devices (IMDs) that would generally be unable to monitor such physiological parameters, may apply the relationship to values of the non-PSG physiological parameter set for a patient to identify sleep states of the patient.

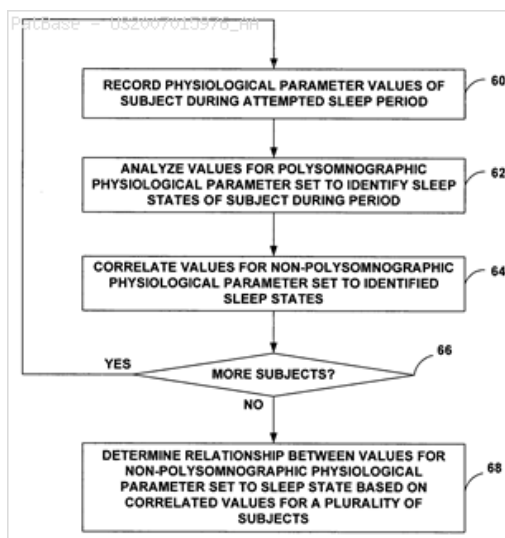
Classifications:

International (IPC 8-9): A61B5/00 A61B5/04 (Advanced/Invention); A61B5/00 (Core/Invention)

CPC: A61B5/0006 A61B5/0402 A61B5/0476 A61B5/1135 A61B5/14557 A61B5/4528 A61B5/4806 A61B5/4815 A61B5/4818 A61B5/6831 Y10S128/92

European: A61B5/00B2 A61B5/00B3B A61B5/0402 A61B5/113B A61B5/48C A61B5/48C6 A61B5/48C8 A61B5/68B3B K61B5/0476 K61B5/1455N10 K61B5/45K

US: 128/920 128/920S 600/301 600/301P



Family:

Publication number	Publication date	Application number	Application date
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US8021299 BB	20110920	US20060410448	20060425
WO06130268 A1	20061207	WO2006US15369	20060425

Priority:

US20050686317P 20050601 US20060410448 20060425

Probable Assignee: MEDTRONIC INC

Assignee(s): (std): HERUTH KENNETH T ; MEDTRONIC INC ; MIESEL KEITH A

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

Inventor(s): HERUTH KENNETH ; MIESEL KEITH

Agent(s): SHUMAKER AND SIEFFERT P A ; 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 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

5) Family number: 66287337 (US2014305204A)

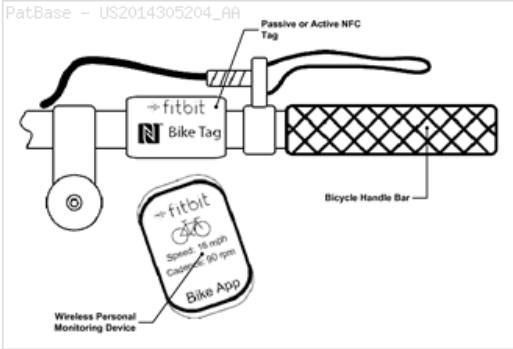
© PatBase

Title: USE OF GYROSCOPES IN PERSONAL FITNESS TRACKING DEVICES AND BICYCLING ACTIVITIES

Abstract: Biometric monitoring devices, including various technologies that may be implemented in such devices, are discussed herein. Additionally, techniques for utilizing gyroscopes in biometric monitoring devices are provided. Such techniques may, in some implementations, involve obtaining swimming metrics regarding stroke cycle count, lap count, and stroke type. Such techniques may also, in some implementations, involve obtaining performance metrics for bicycling activities.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/024 A61B5/11 A63B24/00 A63B71/06 G01C19/02 G01C19/56 H04W4/02 (Advanced/Invention); H04L29/08 H04W4/00 (Advanced/Non-invention)
CPC: A63B24/0062 G01P9/02 A63B2024/0068 A61B5/0002 A61B5/02416 A61B5/02427 A61B5/02433 A61B5/02438 A61B5/11 A61B5/1123 A61B5/4812 A61B5/681 A63B71/06 H04W4/027 A63B2209/10 A63B2220/44 A63B2220/80 A63B2220/836 A63B2225/50 A63B2244/20 H04L67/12 A61B5/486 A61B5/7264 A61B5/7405 A61B5/7455 A61B2503/10 A61B2560/0252 A61B2560/0257 A61B2560/0475 A61B2562/0214 A61B2562/0219 A61B2562/0223 H04W4/80
US: 1/1 73/504.08



Family:

Publication number	Publication date	Application number	Application date
US2014305204 AA	20141016	US20140297410	20140605
US9079060 BB	20150714	US20140297410	20140605

Priority:

US20120662961P	20120622	US20130752826P	20130115	US20130830600P	20130603
US20130924784	20130624	US20140946439P	20140228	US20140955045P	20140318
US20140973614P	20140401	US20140001624P	20140521	US20140292741	20140530
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Probable Assignee: FITBIT INC

Assignee(s): (std): FITBIT INC

Inventor(s): (std): AXLEY ANDREW COLE ; HONG JUNG OOK ; YUEN SHELTON GEE JAO

Agent(s): WEAVER AUSTIN VILLENEUVE AND SAMPSON