

Search history

- Search [SP]: A data acquisition and processing system for measuring calories in static exercises, characterized in that it comprises: an exercise structure (1) that has load cells (11) or deflection sensors; a signal conditioning circuit (2) connected to the load cells (11) or structure deflection sensors (1); a control circuit (3) connected to the signal conditioning circuit (2); a wireless antenna (4) connected directly to the control circuit (3); a computer system (5) connected wirelessly with the antenna (4); and a camera (6) connected to the computer system (5). 2. The system according to claim 1, characterized in that the structure (1) is of the type parallel bars, dominated bar, or back. The system according to claim 1 or 2, characterized in that the structure (1) is comprised of support handles (12) located in the upper part of the structure (1), front clamping plate (13); a central support (14); and safety bar (15) connected to the central support (14). 4. The system according to claim 1, characterized in that the control circuit (3) is selected from the group consisting of microcontroller, microprocessor, programmable logic controller, digital signal processor, and the like. 5. The system according to claim 1, characterized in that the wireless antenna (4) corresponds to a Bluetooth type antenna. 6. The system according to claim 1, characterized in that the computer system (5) is a computer or a server. 7. The system according to claim 1, characterized in that it further comprises a user mobile device (7). The system according to claim 7, characterized in that the mobile device (7) is selected from the group consisting of a smartphone, a personal digital assistant (PDA), a tablet, or the like. (Results 0)
- Search [SP]: A data acquisition and processing system for measuring calories in static exercises, characterized in that it comprises: an exercise structure (1) that has load cells (11) or deflection sensors; a signal conditioning circuit (2) connected to the load cells (11) or structure deflection sensors (1); a control circuit (3) connected to the signal conditioning circuit (2); a wireless antenna (4) connected directly to the control circuit (3); a computer system (5) connected wirelessly with the antenna (4); and a camera (6) connected to the computer system (5). (Results 89)
- Search IC=(A63B) and CPC=(A63B2220) (Results 11865)
3:
- Search SFT=(camera and sensor) and IC=(A63B) and CPC=(A63B2220) (Results 1450)
4:
- Search 4 and load cell (Results 69)
5:

1) Family number: 69968018 (US9987188B)

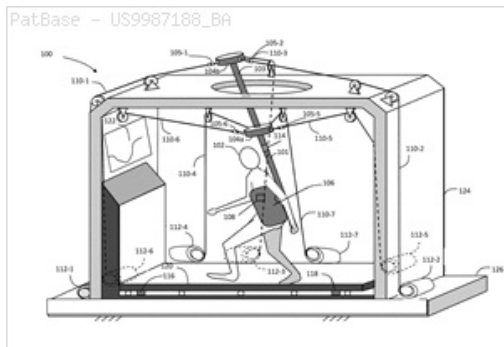
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Title: METHOD AND SYSTEM FOR BODY WEIGHT SUPPORT

Abstract: A body weight support (BWS) system is disclosed. The BWS system includes a harness coupled to a plurality of cables, wherein the harness is worn by a subject, an actuator for each of the plurality of cables, each actuator configured to place a tension on a corresponding cable in response to an electrical signal, at least one force **sensor** configured to provide an electrical signal corresponding to forces applied to the harness, at least one motion **sensor** configured to provide an electrical signal corresponding to changes in acceleration of the subject, and a controller configured to control the plurality of actuators.

Classifications:

International (IPC 8-9): A61H3/00 A63B21/00 A63B21/005
A63B22/02 A63B23/04 A63B24/00 A63B71/06 (Advanced/Invention)
CPC: A61H1/024 A61H1/0266 A61H3/008 A61H2201/0192
A61H2201/1619 A61H2201/1635 A61H2201/164 A61H2201/165
A61H2201/5043 A61H2201/5061 A61H2205/10 A63B69/0028
A63B71/0622 A63B2220/40 A63B2220/51 A63B2220/803
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A63B23/0405 A63B24/0087 A63B2024/009 A63B2220/10
A63B2220/30 A63B2220/80 A63B2220/833 A63B2225/50



Family:

Publication number	Publication date	Application number	Application date
US9987188 BA	20180605	US20170592132	20170510

Priority:

US20170592132 20170510

Probable Assignee:

PURDUE RESEARCH FOUNDATION

Assignee(s): (std):

PURDUE RESEARCH FOUNDATION

Inventor(s): (std):

DIAO XIUMIN

Agent(s):

PIROOZI IP LLC

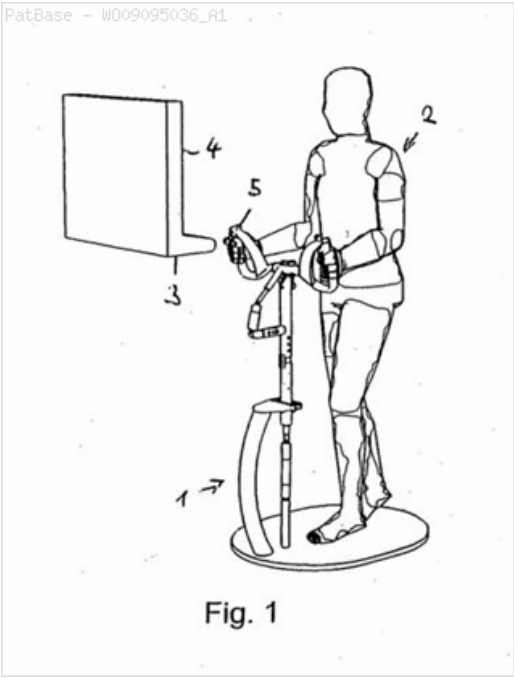
2) Family number: 43593023 (WO09095036A1)

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Title: SPORTS AND THERAPY EQUIPMENT OR TOYS

Abstract: The present invention relates to sports and therapy equipment and to toys with an actuating element, especially with a hand or foot control arm, as well as with a superstructure, which is connected with the actuating element, with at least one resistance element, which, when the actuating element and/or the superstructure is moving, exerts a force counter to the movement, as well as with a bearing, which is not formed by one of the resistance elements and by means of which the superstructure is supported movably.

Classifications:
International (IPC 8-9): A63B21/00 A63B24/00
A63F13/06 (Advanced/Invention);
A63B21/00 A63B24/00 A63F13/02 (Core/Invention)
CPC: A63B21/00065 A63B21/00069 A63B21/02 A63B23/0355
A63B24/00 A63B2024/009 A63B2071/0644 A63B2208/0204
A63B2220/51 A63F2300/1037 A63F2300/1043 A63B71/0622
A63B21/00196 A63F13/285 A63F13/06
European: A63B21/00Z A63B21/02 A63B24/00 A63B71/06D2
A63F13/06 K63B208/02B K63B220/51 K63B23/035F K63B24/00R2
K63B71/06D2C3 K63F300/10F K63F300/10M



Family:

Publication number	Publication date	Application number	Application date
WO09095036 A1	20090806	WO2008EP00794	20080131

Priority:

WO2008EP00794 20080131

Probable Assignee: DAVID PATRICK

Assignee(s): (std): DAVID PATRICK

Inventor(s): (std): DAVID PATRICK

Agent(s): HERRMANN UWE

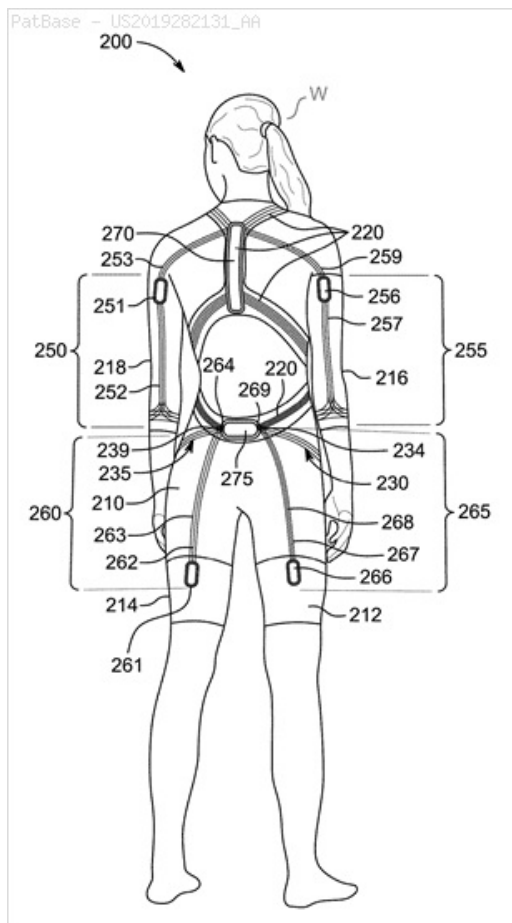
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3) Family number: 75906041 (US2019282131A) © PatBase

Title: MANAGEMENT OF BIOMECHANICAL ACHIEVEMENTS

Abstract: Systems and methods and media for managing biomechanical achievements are provided. An exosuit or any other suitable **sensor** assembly worn by a user can be utilized by a system to monitor several movement factors that may characterize the user's movement and any changes in the user's movement with a high degree of specificity that may enable various system algorithms and/or models to predict or otherwise determine one or more biomechanical achievements of the user, such as recovery from a particular type of event (e.g., surgery or therapy procedure) and/or distance traveled (e.g., without using any global positioning system capabilities). In addition, an exosuit can provide useful feedback in response to such determinations.

Classifications:
International (IPC 8-9): A41D1/00 A61B5/00 A61B5/11 A61H3/00
A63B24/00 B25J9/00 B25J9/16 G05B17/02 G06N20/00 G06N7/00
G09B19/00 (Advanced/Invention)
CPC: B25J9/163 B25J9/0006 G06N7/005 G06N20/00 G05B17/02
A61B5/1123 A61B2503/20 A61H3/00 A41D1/002 G09B19/003
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A63B2220/54 A63B2230/60 A61H2201/165 A63B2230/04
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A61B5/6804 A61B2503/10 A61B2562/0219 A61B2562/04
A61B2562/222 G09B19/0038 A61H1/02 A61H1/0237 A61H1/0244
A61H1/0274 A61H2201/0192 A61H2201/123 A61H2201/1626
A61H2201/163 A61H2201/1638 A61H2201/1642 A61H2201/50
A61H2201/5007 A61H2201/501 A61H2201/5058 A61H2201/5097
A61H2203/0406



Family:

Publication number	Publication date	Application number	Application date
US2019282131 AA	20190919	US20190355340	20190315
US2019283247 AA	20190919	US20190355275	20190315

Priority:

US20180643640P 20180315	US20180646814P 20180322	US20190813387P 20190304
US20190355340 20190315	US20190355275 20190315	

Probable Assignee: SEISMIC HOLDINGS INC

Assignee(s): (std): SEISMIC HOLDINGS INC

Inventor(s): (std): CHANG ANDREW ROBERT ; CHANG DEREK ; LY DANIEL LE ; COWAN RAY FRANKLIN

4) Family number: 72668049 (WO19006304A1)

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Title: AGILITY TRAINER

Abstract: An agility trainer apparatus that provides a robotic system that applies forces laterally to a harness worn by a person during walking so as to provide highly controllable interventions targeting locomotor stability.

Classifications:

International (IPC 8-9): A61H3/00 A63B21/04

A63B26/00 (Advanced/Invention)

CPC: A63B21/04 A63B21/0058 A63B21/4009 A63B22/0235

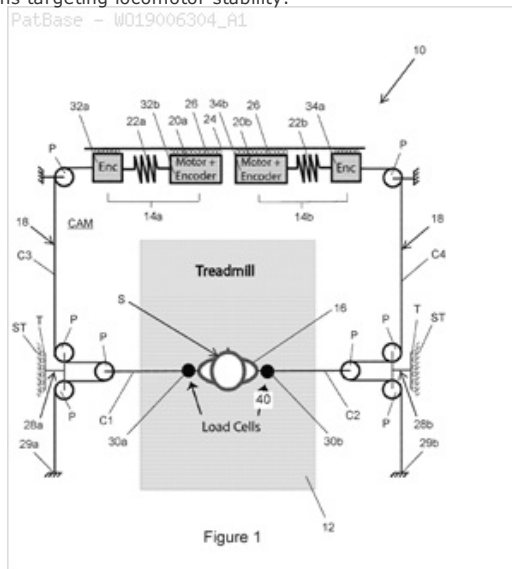
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A61H2201/1207 A61H2201/163 A61H2201/1652 A61H2201/5061

A61H2201/5064



Family:

Publication number	Publication date	Application number	Application date
WO19006304 A1	20190103	WO2018US40294	20180629

Priority:

US20170527779P 20170630

Probable Assignee: UNIV NORTHWESTERN

Assignee(s): (std): UNIV NORTHWESTERN ; US DEPT VETERANS AFFAIRS

Assignee(s): NORTHWESTERN UNIV ; US DEPARTMENT OF VETERANS AFFAIRS

Inventor(s): (std): WU MENGAN ; GORDON KEITH ; HUANG FELIX ; BROWN GEOFFREY

Inventor(s): HUANG FELIX C ; GORDON KEITH E ; BROWN GEOFFREY L

Agent(s): THIMMIG DAVID M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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

5) Family number: 44342110 (US2010036207A)

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Title: RELATIVE RESPONSE SYSTEM INCLUDING REPROGRAMMING CAPABILITY FOR AUTONOMOUS OR INTERRELATED STIMULUS AND **SENSOR** SYSTEMS FOR MEASURING BIOLOGICAL RESPONSE DATA RELATIVE TO EITHER AN ABSOLUTE REFERENCE AND/OR RELATIVE TO OTHER BIOLOGICAL RESPONSE

Abstract: A wireless system of independent CPU pods for initiating, collecting, and optionally processing, absolute and/or relative response data of biological systems to stimulus and then using wireless means to transmit the data to a plurality of external communications (e.g. human interface device) via a bridge pod. The system is set up to perform a plurality of sequences of stimulus and then response measurement according to programming through the wireless network which can be changed on each CPU pod via re-programming at any time to create new configurations and metrics. The sequences may execute on each CPU pod(s) and CPU bridge pod (s) autonomously or the programming can create a plurality of different interrelated sequences depending on system objectives. A plurality of **sensors** and stimulate devices are connected or integrated to the CPU pods according to the purposes of the programmed stimulate response sequences. This system is beneficial for getting stimulus-response data for any biological activity in a relative of independant response manner making it quite general. Thus, interrelated reactions of any number of biological systems relative to each other can be measured, processed and communicated to any desired device for further processing or display. Thus, either individual performance or entire teams relative performance can be tracked to improve performance in a plurality of ways in a plurality of sports, military, etc. exercises.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/11 A61B5/16 A63B24/00

A63B69/32 G06F8/40 H04W84/12 (Advanced/Invention);

A61B5/00 A61B5/16 (Core/Invention)

CPC: A61B5/1104 A61B5/162 A63B69/32 A63B24/0006

A63B24/0062 H04W84/12 A63B2220/40 A63B2225/50 A63B2220/30

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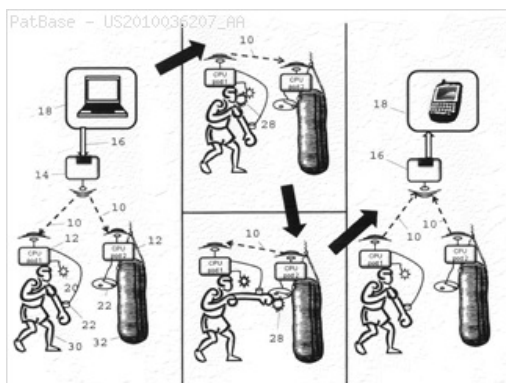
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A61B5/02007 A61B5/02416 A61B5/024

European: A63B69/32 K61B5/024

US: 1/1 482/9 600/300 600/300P



Family:

Publication number	Publication date	Application number	Application date
US2010036207 AA	20100211	US20090460750	20090724
US2017135609 AA	20170518	US20170421368	20170131
US2019038932 AA	20190207	US20180154602	20181008

Priority:

US20080135779P 20080724

US20090460750 20090724

US20170421368 20170131

US20180154602 20181008

Probable Assignee: DEMILE KENNETH

Assignee(s): (std): DEMILE KEN ; DEMILE KENNETH ; ECKBLAD MICHAEL Z ; ECKBLAD MICHAEL ZACK

Inventor(s): (std): DEMILE KEN ; ECKBLAD MICHAEL ZACK ; ECKBLAD MICHAEL Z ; DEMILE KENNETH

Agent(s): MICHAEL ZACK ECKBLAD

6) Family number: 42978145 (US2009062092A)

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Title: SYSTEM AND METHOD FOR VIBROTACTILE GUIDED MOTIONAL TRAINING

Abstract: Motional training is achieved by providing a subject with vibrotactile feedback in response to an attempt by the subject to perform predetermined motions. In particular, an attempt by the subject to perform at least one predetermined motion is monitored using **sensors**, such as force plates or inertial **sensors**. The **sensor** signals indicate results of the attempt by the subject to perform the at least one predetermined motion, and a variance between the at least one predetermined motion and the results of the attempt by the subject to perform the at least one predetermined motion is determined. Vibrotactile signals are then sent to the subject by activating one or more actuators coupled to the subject, where the one or more actuators are spatially oriented with respect to the subject to indicate one or more directions. The vibrotactile signals indicate the variance with respect to the one or more directions.

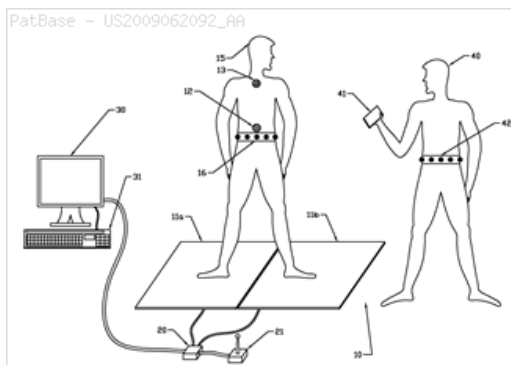
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A63B71/00 A63B71/06 A63H30/04 G09B19/00 G09B9/00
G09G5/00 (Advanced/Invention);
G09B21/00 (Advanced/Non-invention);
A63B26/00 G09B19/00 (Core/Invention)

CPC: A63B22/18 A63B24/0062 A63B71/0622 A63B2024/0068
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US: 1/1 482/1 482/142 482/142P 482/148



Family:

Publication number	Publication date	Application number	Application date
US2009062092 AA	20090305	US20080201778	20080829
US2012094814 AA	20120419	US20110311924	20111206
US2019232113 AA	20190801	US20190384863	20190415
US8092355 BB	20120110	US20080201778	20080829
US9149222 BA	20151006	US20110300428	20111118
US9526946 BA	20161227	US20110300333	20111118
US10258259 BA	20190416	US20110306872	20111129
WO09029834 A1	20090305	WO2008US74854	20080829
WO13085754 A1	20130613	WO2012US66694	20121128

Priority:

US20070966997P 20070901	US20080201778 20080829	US20100415371P 20101119
US20100418220P 20101130	US20110300428 20111118	US20110300333 20111118
US20110306872 20111129	US20110311924 20111206	US20190384863 20190415

Probable Assignee: ENGINEERING ACOUSTICS INC

Assignee(s): (std): BIRCK JONATHAN D ; ENG ACOUSTICS INC ; ENGINEERING ACOUSTICS INC ; ZETS GARY A ;
MORTIMER BRUCE J P ; MORTIMER BRUCE ; ZETS GARY ; ATKINS KAREN L ; BALANCESENSE LLC ;
MORT GREGORY R

Assignee(s): BIODEX MEDICAL SYSTEMS INC ; MORTIMER BRUCE JP

Inventor(s): (std): ZETS GARY A ; ATKINS KAREN L ; MORTIMER BRUCE J P ; BIRCK JONATHAN D ; ZETS GARY ;
MORTIMER BRUCE ; MORTIMER BRUCE JP ; MORT GREGORY R

Agent(s): NIXON PEABODY LLP; STEPHEN C; ROBERT A; HAYWORTH CHANEY AND THOMAS PA; THOMAS
STEPHEN C; MAY DAVID L; KAUTZ THOMAS L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
CU CY CZ DE 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

7) Family number: 62152150 (US2016107062A)

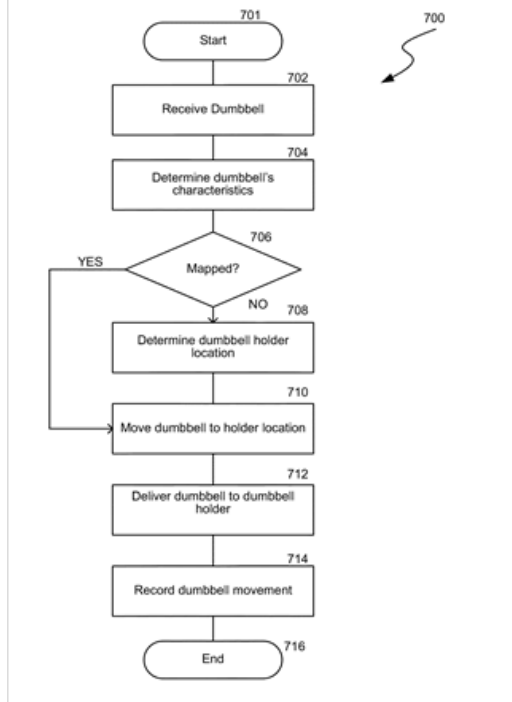
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Title: AUTOMATED RACKING OF WEIGHT LIFTING EQUIPMENT

Abstract: Automated gym equipment sorting technology is presented for receiving, measuring, sorting, delivering and inventorying weights (dumbbells) used in a gym facility. Various mechanisms are employed for efficiently replacing weights on a rack accessible to gym members. Weights are randomly dropped off at and dynamically sorted by the technology based on dumbbell characteristics and an optional schema so that members can more efficiently find desired weights.

Classifications:

International (IPC 8-9): A63B21/072 A63B71/00 B65G1/04
B65G1/137 B65G43/08 G01G3/12 (Advanced/Invention)
CPC: B65G1/137 A63B71/0036 B07C5/34 B07C5/16 B65G1/08
A63B21/0726 B25H3/04 A63B24/0087 A63B2071/0625
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US: 700/213

**Family:**

Publication number	Publication date	Application number	Application date
US2016107062 AA	20160421	US20150887149	20151019
WO16064754 A1	20160428	WO2015US56268	20151019

Priority:

US20140066237P 20141020 US20150887149 20151019

Probable Assignee: UNION SQUARE INNOVATIONS LLC

Assignee(s): (std): UNION SQUARE INNOVATIONS LLC

Inventor(s): (std): ARORA SAURABH ; ZIMMERMAN GREG ; HISKEY JUSTIN ; ZIMMERMAN BEN ; SHARMA ADITYA KARAN

Agent(s): SMITH ERIK C 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 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

8) Family number: 33805157 (US2006264299A)

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Title: EXERCISE INTRA-REPETITION ASSESSMENT SYSTEM

Abstract: An intra-repetition exercise system which allows comparison of actual performance of intra-repetition exercise characteristics (2) to pre-established target performance of intra-repetition exercise characteristics (3) by an exerciser (1).

Classifications:

International (IPC 8-9): A63B21/00 A63B21/08 A63B22/00

A63B26/00 A63B71/00 (Advanced/Invention);

A63B21/00 A63B21/06 A63B22/00 A63B26/00

A63B71/00 (Core/Invention)

CPC: A63B21/0628 A63B24/0062 A63B23/0211 A63B23/0233

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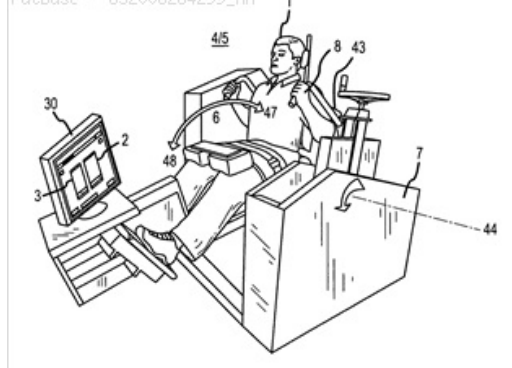
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US: 482/13 482/13S 482/3 482/4 482/6 482/7 482/8 482/8P 482/9

482/93 482/97 482/97S

PatBase - US2006264299_AA

**Family:**

Publication number	Publication date	Application number	Application date
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US2008214357 AA	20080904	US20080148026	20080416
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Priority:

US20050682330P 20050517 US20060436164 20060517 WO2006US19112 20060517
US20080148026 20080416

Probable Assignee: MEDAVIEW PRODUCTS LLC

Assignee(s): (std): FARINELLI EDWARD JOHN ; MEDAVIEW PRODUCTS LLC ; SHARKEY KENNETH JOSEPH

Inventor(s): (std): FARINELLI EDWARD J ; SHARKEY KENNETH J ; SHARKEY KENNETH JOSEPH ; FARINELLI EDWARD JOHN

Inventor(s): SHARKEY KENNETH ; FARINELLI EDWARD

Agent(s): PERRY AND CURRIER; CR MILES PC; CR MILES PC CRAIG R MILES; MILES CRAIG; CRAIG; CRAIG R

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

9) Family number: 69192164 (US2018099205A)

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Title: CONSOLE POSITIONING

Abstract: A method for positioning a console of an exercise device includes determining an angle formed between an exercise deck of the exercise device and a base of the exercise device and adjusting a physical height of a console of the exercise device to a correlated height based at least in part on the angle of the exercise deck when the physical height is determined to be out of alignment with the correlated height.

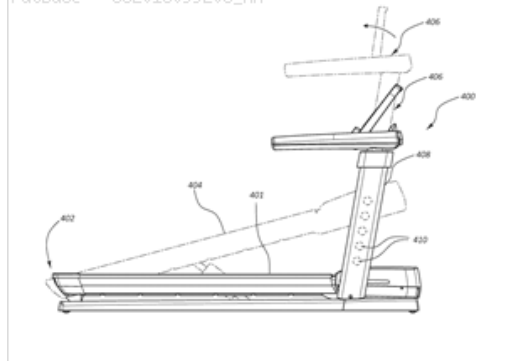
Classifications:

International (IPC 8-9): A63B22/00 A63B22/02 A63B24/00

A63B71/06 (Advanced/Invention)

CPC: A63B22/0023 A63B22/02 A63B24/0087 A63B71/0619
A63B2071/0658 A63B2210/50 A63B2225/093 A63B2225/096
A63B71/0622 A63B2024/009 A63B2071/0638 A63B2071/0675
A63B2071/068 A63B2220/10 A63B2220/16 A63B2220/20
A63B2220/62 A63B2220/80 A63B2220/805 A63B2220/833
A63B2220/89 A63B2225/20 A63B2225/50
US: 1/1 482/54

PatBase - US2018099205_AA



Family:

Publication number	Publication date	Application number	Application date
■ TW201819003 A	20180601	TW20170134446	20171006
■ TWI637768 B	20181011	TW20170134446	20171006
■ US2018099205 AA	20180412	US20170712883	20170922
■ US10500473 BB	20191210	US20170712883	20170922
■ WO18071232 A1	20180419	WO2017US54930	20171003

Priority:

US20160406287P 20161010 US20170712883 20170922

Probable Assignee: ICON HEALTH AND FITNESS INC

Assignee(s): (std): ICON HEALTH AND FITNESS INC

Inventor(s): (std): WATTERSON SCOTT R

Agent(s): RAY QUINNEY AND NEBEKER; CHANG RICHARD

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

10) Family number: 71028164 (US2018250553A)

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Title: SMART WEIGHT-LIFTING PIN

Abstract: Generally discussed herein are devices, systems, and methods for smart weight-lifting devices. A weight-lifting pin may be configured for insertion into a weight plate of a weight-lifting machine, the weight-lifting pin comprising a radio transmitter, a movement **sensor**, and a distance **sensor**.

Classifications:

International (IPC 8-9): A63B21/062 A63B24/00 (Advanced/Invention)

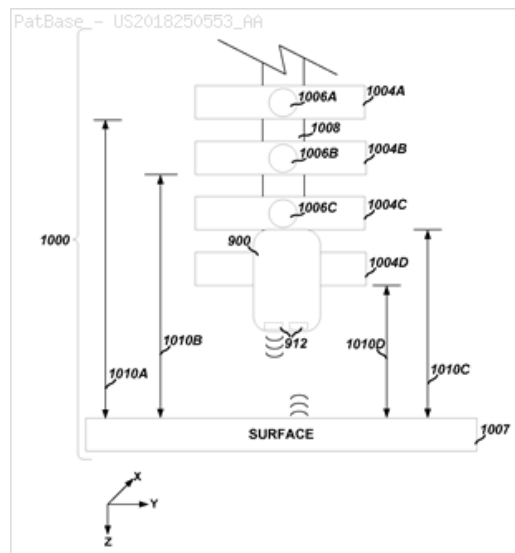
CPC: A63B24/0003 A63B21/063 A63B2225/52 A63B2220/40

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A63B2071/068 A63B2220/16 A63B2220/52 A63B2225/20

A63B2225/50

US: 1/1 482/8



Family:

Publication number	Publication date	Application number	Application date
■ US2018250553 AA	20180906	US20180910487	20180302

Priority:

US20170466920P 20170303 US20180910487 20180302

Probable Assignee: UBODY INC

Assignee(s): (std): UBODY INC

Inventor(s): (std): PENDERGAST RYAN ; WURTZ CHRISTOPHER ; BEAVERS WADE ; KOZLOWSKI JAMES MICHAEL