

Nicolas Vargas

Search history

Search TAC=(rehabilitation) (Results 33918)

1:

Search 1 and virtual and (hand w5 sensor*) (Results 58)

2:

Search 2 and pd<20161219 (Results 45)

3:

Search 4: [SP]: 1. a device for rehabilitation exercise of the hands comprising: multiple sense parts located on each part of a user's hand, and configured to sense movements of the each part and communication part configured to send multiple pieces of movement data sensed by the multiple sense parts to an output device, wherein the multiple sense parts include: at least one finger sense parts for fingers of the hand, including a movement sensing sensor a back sense part for a back of the hand, located on the back of the hand of the user and including a movement sensing sensor and a wrist sense part for a wrist of the hand, located on a wrist of the user and including a movement sensing sensor, wherein fixing tools for fixing the sensing parts to corresponding portions are located in the finger sense part, the back sense part, and the wrist sense part, wherein the finger sense part is connected to the back sense part by a connecting part, wherein the movement sensing sensor includes: wherein at least one of an imu (inertial measurement unit) sensor, an acceleration sensor, and a gyroscope sensor, wherein the output device constitutes and outputs a screen including a graphic object corresponding to the multiple pieces of movement data, wherein the graphic object is displayed by using a correlation between first movement data and second movement data and a correlation between the second movement data and third movement data, wherein the first movement data is movement data measured by the finger sense part, wherein the second movement data is movement data measured by the back sense part, and wherein the third movement data is movement data measured by the wrist sense part. 2. the hand rehabilitation exercise device of claim 1, wherein the imu sensor is a 9-axis imu sensor. 3. the hand rehabilitation exercise device of claim 1, wherein the fixing tool located in the finger sense part includes: a fixing string placed on one side of the corresponding finger sense part to surround a portion of the corresponding finger at which the corresponding finger sense part is located and a fixing hanger placed on an opposite side of the corresponding finger sense part such that one end of the fixing string is caught by the fixing hanger. 4. the hand rehabilitation exercise device of claim 1, wherein the back sense part further includes: an output part, and wherein the output part compares the movement data detected by the multiple sensing parts and reference movement data stored in advance to output an alarm signal that informs that the movement of the hand of the user does not reach a reference when the sensed movement data does not coincide with the reference movement data. 5. the hand rehabilitation exercise device of claim 4, wherein the output part is disposed in each of the parts of the hand. 6. the hand rehabilitation exercise device of claim 1, wherein the connecting part is separable from the finger sense part and the back sense part. (Results 0)

Search 5: [SP]: 1. a device for rehabilitation exercise of the hands comprising: multiple sense parts located on each part of a user's hand, and configured to sense movements of the each part and communication part configured to send multiple pieces of movement data sensed by the multiple sense parts to an output device, wherein the multiple sense parts include: at least one finger sense parts for fingers of the hand, including a movement sensing sensor a back sense part for a back of the hand, located on the back of the hand of the user and including a movement sensing sensor and a wrist sense part for a wrist of the hand, located on a wrist of the user and including a movement sensing sensor, wherein fixing tools for fixing the sensing parts to corresponding portions are located in the finger sense part, the back sense part, and the wrist sense part, wherein the finger sense part is connected to the back sense part by a connecting part, wherein the movement sensing sensor includes: wherein at least one of an imu (inertial measurement unit) sensor, an acceleration sensor, and a gyroscope sensor, wherein the output device constitutes and outputs a screen including a graphic object corresponding to the multiple pieces of movement data, wherein the graphic object is displayed by using a correlation between first movement data and second movement data and a correlation between the second movement data and third movement data, wherein the first movement data is movement data measured by the finger sense part, wherein the second movement data is movement data measured by the back sense part, and wherein the third movement data is movement data measured by the wrist sense part. 2. the hand rehabilitation exercise device of claim 1, wherein the imu sensor is a 9-axis imu sensor. 3. the hand rehabilitation exercise device of claim 1, wherein the fixing tool located in the finger sense part includes: a fixing string placed on one side of the corresponding finger sense part to surround a portion of the corresponding finger at which the corresponding finger sense part is located and a fixing hanger placed on an opposite side of the corresponding finger sense part such that one end of the fixing string is caught by the fixing hanger. 4. the hand rehabilitation exercise device of claim 1, wherein the back sense part further includes: an output part, and wherein the output part compares the movement data detected by the multiple sensing parts and reference movement data stored in advance to output an alarm signal that informs that the movement of the hand of the user does not reach a reference when the sensed movement data does not coincide with the reference movement data. 5. the hand rehabilitation exercise device of claim 4, wherein the output part is disposed in each of the parts of the hand. 6. the hand rehabilitation exercise device of claim 1, wherein the connecting part is separable from the finger sense part and the back sense part. (Results 0)

Search 6: 1 and virtual and (finger* w10 sensor*) (Results 72)

6:

Search 6 and threshold (Results 32)

7:

Search 8: [SP]: 1. a system, comprising: a first device configured to be coupled to a body at a first location and configured to generate a wireless signal and a second device configured to be coupled to the body at a second location, the second location being disposed apart from the first location by a distance the second device configured to detect the wireless signal and to generate data based on the detected wireless signal, the data generated being configured to be used to calculate the distance, the distance being used to characterize the effect of the rehabilitation therapy on the body. 2. the system according to claim 1, wherein the distance is a first distance, the wireless signal of the first device is a first wireless signal, the first device configured to generate the first wireless signal at a first frequency, the system further comprising: a third device configured to be coupled to the body at a third location, the third location being disposed apart from the second location by a second distance, the third device configured to generate a second wireless signal at a second frequency, the second device configured to detect the second wireless signal and to generate additional data based on the detected second wireless signal, the additional data generated being configured to be used to calculate the second distance, the second distance being used to characterize the effect of the rehabilitation therapy on the body. 3. the system according to claim 2, wherein the third device is configured to generate the second wireless signal at the same time that the first device is configured to generate the first wireless signal. 4. the system according to claim 3, wherein the second device is configured to detect in a selectable manner a signal selected from the group consisting of the first wireless signal and the second wireless signal. 5. the system according to claim 1, further comprising: the an external device configured to communicate with the second device, the second device configured to communicate the data to the external device, and the external device configured to calculate the distance based on the data. 6. the system according to claim 5, wherein the external device is configured to calculate an angle of orientation between the second device and the first device based on the data. 7. the system according to claim 5, wherein the external device is configured to communicate with the second device via a wireless communication path selected from the group consisting of a radio frequency path, an electrical current path through the body, a path configured for the communication of modulated sonic waves, a path configured for the communication of modulated ultrasonic waves, and an optical communication path. 8. the system according to claim 5, wherein the external device is configured to calculate a value selected from the group consisting of an average of the first distance over a period of time, a standard deviation of the first distance over a period of time, a number of times that the second device is moved relative to the first device over a period of time, a velocity of the second device relative to the first device, an average velocity of the second device relative to the first device over a period of time, an acceleration of the second device relative to the first device, and an average acceleration of the second device relative to the first device over a period of time based on the first distance. 9. the system according to claim 1, wherein at least one device of the first device and the second device is configured to be coupled to the body via a method selected from the group consisting of implanting the at least one device within the body, and attaching the at least one device to the body using a coupler selected from the group consisting of an adhesive, a piece of clothing, a strap, a belt, a clip, and a watch. 10. the system according to claim 1, wherein: the first device is configured to be coupled to a torso of the body, and the second device is configured to be coupled to any one of a hand or an arm. 11. the system according to claim 1, wherein the wireless signal is selected from the group consisting of a magnetic field, a low-frequency magnetic field, a sonic wave, and an ultrasonic wave. 12. the system according to claim 1, wherein at least one of the first device and the second device includes a component selected from the group consisting of a battery, a coil, orthogonal coils, a generator, a voltage measurement circuit, a transducer, a processing circuit, a transmitter, a receiver, and a transceiver. 13. the system according to claim 1, wherein at least one of the first device and the second device is a miniature stimulator. 14.

the system according to claim 1, wherein at least one of the first device and the second device includes a transmitter and a receiver. 15. a system, comprising: a transmitter configured to be coupled to a body at a first location and to transmit a wireless signal a plurality of receivers configured to be coupled to the body, each of the plurality of receivers configured to be coupled to the body at a different location disposed apart from the location of the transmitter by one of a plurality of distances, each of the plurality of receivers configured to detect the wireless signal and to generate data based on the detected wireless signal and an external device configured to communicate with the plurality of receivers and receive the generated data from the plurality of receivers, the external device configured to calculate the plurality of distances between the plurality of receivers and the transmitter based on the data, the plurality of distances being used to characterize the effect of the rehabilitation therapy on the body. 16. the system according to claim 15, wherein at least one device of the transmitter and the plurality of receivers is configured to be coupled to the body via a method selected from the group consisting of: implanting the at least one device within the body, and attaching the at least one device to the body using a coupler selected from the group consisting of an adhesive, a piece of clothing, a strap, a belt, a clip, and a watch. 17. the system according to claim 15, wherein the wireless signal is selected from the group consisting of a magnetic field, a low-frequency magnetic field, a sonic wave, and an ultrasonic wave. 18. the system according to claim 15, wherein: the wireless signal is an ultrasonic wave and at least one receiver from the plurality of receivers is configured to generate the data based on at least one of an amplitude of the ultrasonic wave, a phase of the ultrasonic wave, and a time of propagation of the ultrasonic wave, the external device is configured to calculate the plurality of distances based on a characteristic of the ultrasonic wave detected by the plurality of receivers selected from the group consisting of an amplitude of the ultrasonic wave, a phase of the ultrasonic wave, and a time of propagation of the ultrasonic wave. 19. the system according to claim 15, wherein the external device is configured to calculate a plurality of angles of orientation between the plurality of receivers and the transmitter based on the data. 20. the system according to claim 19, further comprising an additional device selected from the group consisting of a distance sensor, an angle sensor, an acceleration sensor, a vibration sensor, and a video camera, wherein the additional device is coupled to the external device and configured to aid in the calculation of the plurality of distances and the plurality of angles of orientation. 21. the system according to claim 15, wherein the external device is configured to calculate, based on the data, a parameter selected from the group consisting of a velocity for each of the plurality of receivers relative to the transmitter, and an acceleration for each of the plurality of receivers relative to the transmitter. 22. the system according to claim 15, wherein: one of the plurality of receivers is configured to be coupled to a healthy limb of the body another of the plurality of receivers is configured to be coupled to an impaired limb of the body and the external device is configured to compare the distance between the one of the plurality of receivers and the transmitter to the distance between the another of the plurality of receivers and the transmitter. 23. a method comprising: coupling a first device to the body at a first location coupling a second device at a second location, the second location spaced apart from the first location transmitting a wireless signal from the first device receiving the wireless signal calculating a distance between the first device and the second device based on the wireless signal and characterizing the effect of the rehabilitation therapy on the body based on the distance. 24. the method according to claim 23, further comprising: generating a data based on the wireless signal, the calculating performed based on the data. 25. the method according to claim 24, further comprising: calculating an angle of orientation between the first device and the second device based on the data. 26. the method according to claim 24, (Results 23)

Search 8 and threshold (Results 12)

9:

Search 1 and pd<20161219 (Results 21525)

10:

Search 6 and pd<20161219 (Results 59)

11:

Search 7 and pd<20161219 (Results 29)

12:

1) Family number: 63579010 (WO15192117A1)

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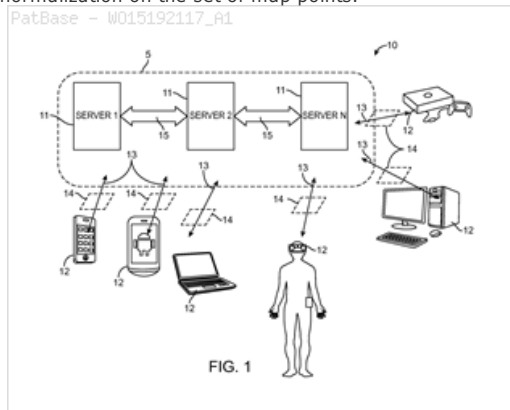
Title: METHODS AND SYSTEMS FOR CREATING **VIRTUAL** AND AUGMENTED REALITY

Abstract: Configurations are disclosed for presenting **virtual** reality and augmented reality experiences to users. The system may comprise an image capturing device to capture one or more images, the one or more images corresponding to a field of the view of a user of a head-mounted augmented reality device, and a processor communicatively coupled to the image capturing device to extract a set of map points from the set of images, to identify a set of sparse points and a set of dense points from the extracted set of map points, and to perform a normalization on the set of map points.

Classifications:

International (IPC 8-9): G06K9/00 (Advanced/Invention)

CPC: A61B2090/365 G06F3/011 G06F3/012 G06F3/013 G06F3/017 G09G3/003 G09G2354/00 G09G2370/02 G09G2380/08 G02B6/0011 G06F3/14 G06K9/00389 G06K9/00604 G06K9/00671 G06F3/147 G09G3/002



Family:

Publication number	Publication date	Application number	Application date
WO15192117 A1	20151217	WO2015US35718	20150613

Priority:

US20140012273P 20140614

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Inventor(s): (std): MILLER SAMUEL A ; BRADSKI GARY R ; ABOVITZ RONY

Agent(s): MEI PETER C

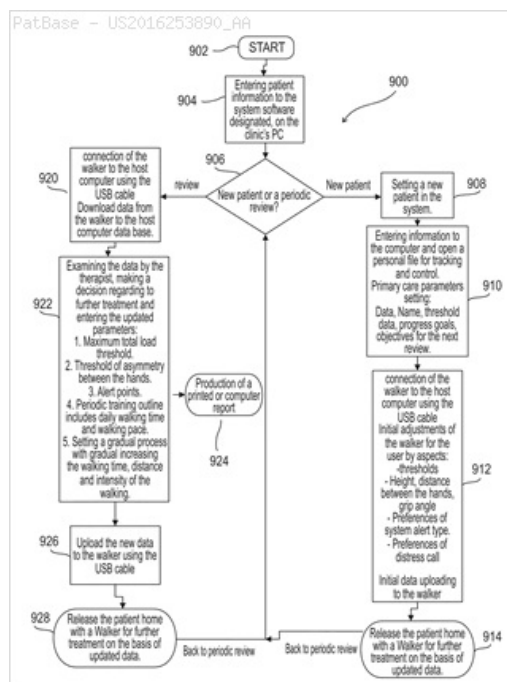
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Title: WALKER-ASSIST DEVICE

Abstract: A system for monitoring the use of a walker comprising: at least one sensor adapted for retrofitting to a walker, for measuring a physical parameter at at least one location on the walker and for sending at least one feedback signal indicating a value of the physical parameter measured.

Classifications:

International (IPC 8-9): A61B5/103 A61B5/11 A61H A61H1/02 A61H3/00 A61H3/04 A63B24/00 G06F19/00 G08B G08B21/04 G09B19/24 (Advanced/Invention); A61H G08B (Subclass/Invention)
CPC: A61H1/02 A61H3/04 A45B3/00 A45B3/02 A45B3/08 A61B5/1112 A61B5/1116 A61B5/112 A61B5/225 A61H3/02 A61H2201/0107 A61H2201/0184 A61H2201/501 A61H2201/5043 A61H2201/5048 A61H2201/5061 A61H2201/5084 A45B9/00 G08B21/0461 A61H3/00 G09B19/24 A61B5/1113 G08B21/0446 A61B5/103 G06F19/3481
US: 340/539.13



Family:

Publication number	Publication date	Application number	Application date
CA2963072 AA	20170329	CA20142963072	20141029
IL245207 A0	20160630	IL20140245207	20141029
IL245207 A1	20171231	IL20140245207	20141029
IL256021 A0	20180131	IL20140256021	20141029
US2016253890 AA	20160901	US20140030874	20141029
WO15063765 A1	20150507	WO20141L50935	20141029

Priority:

US20130896746P 20131029 WO2014IL50935 20141029 US20140030874 20141029
 IL20160245207 20160419

Probable Assignee: MILBAT GIVING QUALITY TO LIFE

Assignee(s): (std): AVRAHAM RABINOWITZ ; MILBAT GIVING QUALITY OF LIFE ; MILBAT GIVING QUALITY TO LIFE ; YOHANA RAM

Assignee(s): RAM YOHANA ; RABINOWITZ AVRAHAM

Inventor(s): (std): RAM YOHANA ; RABINOWITZ AVRAHAM ; AVRAHAM RABINOWITZ ; YOHANA RAM

Agent(s): INTEGRAL IP; GE EHRlich 1995 LTD; EHRlich GAL ET AL

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

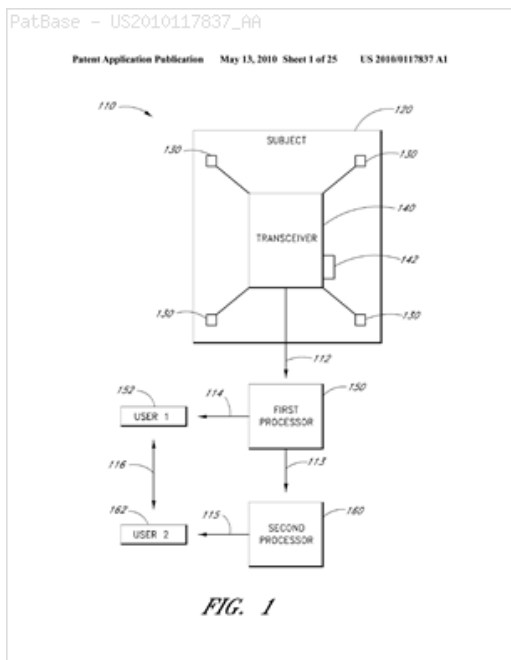
Title: APPARATUS, SYSTEMS, AND METHODS FOR GATHERING AND PROCESSING BIOMETRIC AND BIOMECHANICAL DATA

Abstract: Apparatus, systems, and methods are provided for measuring and analyzing movements of a body and for communicating information related to such body movements over a network. In certain embodiments, a system gathers biometric and biomechanical data relating to positions, orientations, and movements of various body parts of a user performed during sports activities, physical **rehabilitation**, or military or law enforcement activities. The biometric and biomechanical data can be communicated to a local and/or remote interface, which uses digital performance assessment tools to provide a performance evaluation to the user. The performance evaluation may include a graphical representation (e.g., a video), statistical information, and/or a comparison to another user and/or instructor. In some embodiments, the biometric and biomechanical data is communicated wirelessly to one or more devices including a processor, display, and/or data storage medium for further analysis, archiving, and data mining. In some embodiments, the device includes a cellular telephone.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/11 A61B5/22 A63B24/00 A63B69/00 A63B69/36 G06F19/00 G06F3/01 G06K9/00 G08B1/08 G08B23/00 G16H20/30 H04B3/36 H04N7/18 (Advanced/Invention); A61B5/00 A63B5/11 G06F19/00 G16H80/00 (Advanced/Non-invention); A61B5/11 G06K9/00 G08B1/00 G08B23/00 H04B3/36 H04N7/18 (Core/Invention)
CPC: A61B5/1114 A61B5/1124 A61B5/4528 A61B5/6804 A61B5/6824 A61B5/7405 A61B2562/0219 A63B24/0006 A63B69/3608 A63B69/3623 A63B2024/0012 A63B2220/10 A63B2220/13 A63B2220/24 A63B2220/30 A63B2220/40

A63B2220/836 A63B2225/20 A63B2225/50 G06F3/011 G06F19/3418
G06F19/3481 A63B69/3667 A63B24/0062 A63B2220/803
A61B5/1127 A63B5/11 A63B2209/08 A63B2209/10 G16H20/30
G16H80/00 G06F19/00
European: A61B5/11U A61B5/11W2 A61B5/68B1D A63B24/00A1
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340/573.1 340/573.100P 340/573.22 340/573.7 348/77 348/77S
348/E7.085 348/E70.85S 382/107 382/107S 473/207 473/222
473/266 482/8 600/592 600/592P 600/595 600/595P 600/595S
702/153 73/379.01



Family:

Publication number	Publication date	Application number	Application date
US2010117837 AA	20100513	US20100697127	20100129
US2010121227 AA	20100513	US20100697151	20100129
US2010121228 AA	20100513	US20100697180	20100129
US2010201500 AA	20100812	US20060601445	20061117
US2010201512 AA	20100812	US20060601381	20061117
US2010204616 AA	20100812	US20090488491	20090619
US2012143093 AA	20120607	US20120369686	20120209
US2016038787 AA	20160211	US20140474000	20140829
US2018290021 AA	20181011	US20180889007	20180205
US7602301 BA	20091013	US20060601438	20061117
US7821407 BB	20101026	US20100697180	20100129
US7825815 BB	20101102	US20100697151	20100129
US7978081 BB	20110712	US20060601445	20061117
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US9907997 BB	20180306	US20140474000	20140829

Priority:

US20060757915P 20060109	US20060765382P 20060203	US20060772612P 20060210
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Probable Assignee: NIKE INC

Assignee(s): (std): APPLIED TECHNOLOGY HOLDINGS IN ; APPLIED TECHNOLOGY HOLDINGS INC ; CUSEY LEE NORMAN ; KNOBBE MARTENS OLSON AND BEAR LLP ; NIKE INC ; SHEARS JAY ALLAN ; STIRLING HAROLD DAN

Inventor(s): (std): SHEARS JAY ALLAN ; STIRLING HAROLD DAN ; CUSEY LEE NORMAN ; SHEARS JAY ALLEN

Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP

4) Family number: 52445058 (US2014200432A)

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Title: SYSTEMS, APPARATUSES, DEVICES, AND PROCESSES FOR SYNERGISTIC NEURO-PHYSIOLOGICAL **REHABILITATION** AND/OR FUNCTIONAL DEVELOPMENT

Abstract: A system for facilitating a subject's functional development includes sensing devices configured for sensing mind state signals; sensing devices configured for sensing body state signals; and a set of processing resources configured for generating a mind state indicator/measure, a body state indicator/measure, and a mind-body synergy indicator/measure that corresponds to which each of the subject's mind state and body state are synergistically aligned for facilitating the subject's functional development. The system can be configured for concurrently presenting a set of activities involving a model body part; engaging in attempted imitation of the set of activities by way of attempted movement of a body part that is a mirror image of the model body part; presenting an indication of an extent to which each of the mind state and body state are cooperative with respect to performance of the set of activities; and presenting an indication of relaxation.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0476 A61B5/0478
A61B5/0488 A61B5/11 A61B5/16 A61H99/00 A61M21/02 A61N1/36
A63B23/00 (Advanced/Invention)
CPC: A61B5/0488 A61B5/0482 A61B5/04888 A61B5/224
A61N1/36003 A63B23/1209 A63B23/14 A63B24/0059 A63B24/0062
A63B2022/0094 A63B2024/0065 A63B2024/0068 A63B2024/0096
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A63B2230/207 A63B2230/30 A63B2230/42 A63B2230/60
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A63B21/00181 A61H99/00 A61M21/02 A61B5/0478 G06F19/3418
A61B5/048 A61B5/1107 A61B5/1125 A61B5/162 A61B5/165
A61B5/743 A61B5/7445 A61B5/7475 A61B2505/09 A63B21/4017

Family:

Publication number	Publication date	Application number	Application date
AU2012259507 AA	20121129	AU20120259507	20120521
AU2012259507 BB	20160825	AU20120259507	20120521
CN103764021 A	20140430	CN201280035990	20120521
CN103764021 B	20151125	CN201280035990	20120521
DE602012022996 D1	20161027	DE201260022996T	20120521
EP2709522 A1	20140326	EP20120789415	20120521
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IN09709C/N2013 A	20141219	IN2013CN09709	20131205
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PL2709522 T3	20170331	PL20120789415T	20120521
PT2709522 T	20161130	PT20120789415T	20120521
SG195069 A1	20140129	SG20130085949	20120521
US2014200432 AA	20140717	US20120118772	20120521
WO12161657 A1	20121129	WO2012SG00177	20120521

Priority:

US20110488185P 20110520 EP20120789415 20120521 WO2012SG00177 20120521
US20120118772 20120521

Probable Assignee: C O NANYANG TECHNOLOGICAL UNIV

Assignee(s): (std): HENG KOK HUI JOHN GERARD ; NANYANG TECH UNIV ; NANYANG TECHNOLOGICAL UNIV ; BANERJI SUBHASIS ; UNIV NANYANG TECH

Assignee(s): C O NANYANG TECHNOLOGICAL UNIV ; NANYANG TECHNOLOGICAL UNIVERSITY

Inventor(s): (std): HENG KOK HUI JOHN GERARD ; BANERJI SUBHASIS ; WANG GUOHUI ; KOK HUI JOHN GERARD HENG ; SUBHASIS BANERJI

Agent(s): FRANKE HYLAND; DEANNA PATENT; DE ANNA PIER LUIGI; AXIS INTELLECTUAL CAPITAL PTE LTD; SIM CHARLIE ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU 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: 64426087 (KR20170018930A)

Title: METHODS AND SYSTEMS FOR CREATING **VIRTUAL** AND AUGMENTED REALITY

Abstract: Configurations are disclosed for presenting **virtual** reality and augmented reality experiences to users. The system may comprise an image capturing device to capture one or more images the one or more images corresponding to a field of the view of a user of a head mounted augmented reality device and a processor communicatively coupled to the image capturing device to extract a set of map points from the set of images to identify a set of sparse points and a set of dense points from the extracted set of map points and to perform a normalization on the set of map points.

Classifications:

International (IPC 8-9): A61B90/00 F21V8/00 G02B6/27 G06F19/00
G06F3/01 G06F3/14 G06K G06K9/00 G06T19/00 G09G3/00
G6K9/00 (Advanced/Invention)

CPC: A61B2090/365 G02B6/0011 G06F3/011 G06F3/012 G06F3/013
G06F3/017 G09G3/003 G09G2354/00 G09G2370/02 G09G2380/08
G06F3/14 G06K9/00389 G06K9/00604 G06K9/00671 G06K9/00
G02B6/2706 G06F3/147 G09G3/002

Family:

Publication number	Publication date	Application number	Application date
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AU2015274283 AA	20170112	AU20150274283	20150613
AU2015274283 AA	20151217	AU20150274283	20150613
CA2953335 AA	20161221	CA20152953335	20150613
CN106937531 A	20170707	CN201580043458	20150613
EP3155560 A1	20170419	EP20150807476	20150613
EP3155560 A4	20180110	EP20150807476	20150613
HK1236658 A1	20180329	HK20170110247	20171012
IL249371 A0	20170228	IL20150249371	20150613
IN201747001399 A	20170512	IN201747001399	20170113
JP2017529635 T2	20171005	JP20170518040T	20150613
KR20170018930 A	20170220	KR20177001117	20150613

Priority:

US20140012273P 20140614 WO2015US35718 20150613

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): MILLER SAMUEL A ; ABOVITZ RONY ; BRADSKI GARY R

Inventor(s): (std): MILLER SAMUEL A ; BRADSKI GARY R ; ABOVITZ RONY

Agent(s): DAVIES COLLISON CAVE PTY LTD; RICHES MCKENZIE AND HERBERT LLP; LECOMTE AND PARTNERS; LIU SHEN AND ASSOCIATES

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

6) Family number: 33550174 (US2008319349A)

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Title: SYSTEM AND RELATED METHOD FOR DETERMINING A MEASUREMENT BETWEEN LOCATIONS ON A BODY

Abstract: A system and related method for characterizing an effect of a **rehabilitation** therapy on a body. The apparatus includes a first device, which is configured to be coupled to the body at a first location, and a second device, which is configured to be coupled to the body at a second location that is separated from the first location by a distance. The first device is configured to generate a wireless signal. The second device is configured to detect the wireless signal and to generate data based on the detected wireless signal that is configured to be used to calculate the distance. The distance is used to characterize the effect of the **rehabilitation** therapy on the body.

Classifications:

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

A61B5/11 (Advanced/Invention);

A61B5/00 A61B5/103 (Advanced/Non-invention);

A61B5/00 A61B5/103 A61B5/11 (Core/Invention);

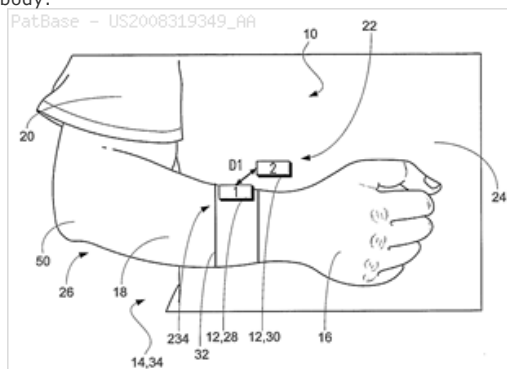
A61B5/00 A61B5/103 (Core/Non-invention)

CPC: A61B5/6823 A61B5/6831 A61B5/1127 A61B5/0031 A61B5/103 A61B5/1071 A61B5/6824

European: A61B5/00B8 A61B5/00B9 A61B5/103 A61B5/11W2

K61B5/00B9 K61B5/107A K61B5/68B2H

US: 600/587 600/587P



Family:

Publication number	Publication date	Application number	Application date
AU2006236428 AA	20061026	AU20060236428	20060417
CA2605016 AA	20071015	CA20062605016	20060417
EP1871228 A1	20080102	EP20060750483	20060417
JP2008536583 T2	20080911	JP20080506814T	20060417
MX2007013000 A1	20080318	MX20070013000	20060417
US2008319349 AA	20081225	US20060911882	20060417
WO06113654 A1	20061026	WO2006US14455	20060417

Priority:

US20050672915P 20050418 US20060911882 20060417 WO2006US14455 20060417

Probable Assignee: BIONESS INC

Assignee(s): (std): BIONESS DEV LLC ; ZILBERMAN YITZHAK

Assignee(s): BIONESS DEVELOPMENT LLC ; BIONESS INC

Inventor(s): (std): ZILBERMAN YITZHAK

Inventor(s): YITZHAK ZILBERMAN

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; BORDEN LADNER GERVAIS LLP; HALEY STEPHEN; COOLEY GODWARD KRONISH LLP, ATTN: PATENT GROUP; COOLEY GODWARD KRONISH LLP ATTN PATENT GROUP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CL 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

Title: POWERED ORTHOTIC DEVICE AND METHOD OF USING SAME

Abstract: A powered orthotic device includes a brace having a first section and a second section, the first section and the second section operationally coupled at a pivot, the first and the second sections moving about the pivot to define flexion and extension directions, such directions defining inside and outside regions of the brace respectively. The device further includes at least one set of straps that removably attach the first section and the second section to a corresponding limb segment such that the pivot is proximate to a joint between each limb segment. The device also includes an electromyographic sensor and an actuator assembly in communication with the electromyographic sensor, the actuator assembly mounted to the brace, and occupying a volume of which a majority is disposed proximately to the outside region of the brace, and coupled to the first and second sections of the brace so as to apply a force for driving the first and second sections about the pivot, the force based on signals from the electromyographic sensor.

Classifications:

International (IPC 8-9): A61B5/0488 A61F2/54 A61F2/68 A61F2/70 A61F2/72 A61F5/00 A61F5/01 A61H A61H1/00 A61H1/02

A61H3/00 (Advanced/Invention);

A61B5/11 A61H1/02 (Advanced/Non-invention);

A61B5/0488 A61F2/50 A61F5/00 A61F5/01 A61H1/02

A61H3/00 (Core/Invention)

CPC: A61B5/1116 A61F5/0127 A61F2005/0155 A61F2005/0169

A61F5/013 A61H1/02 A61H1/0277 A61H1/0285 A61H1/0288

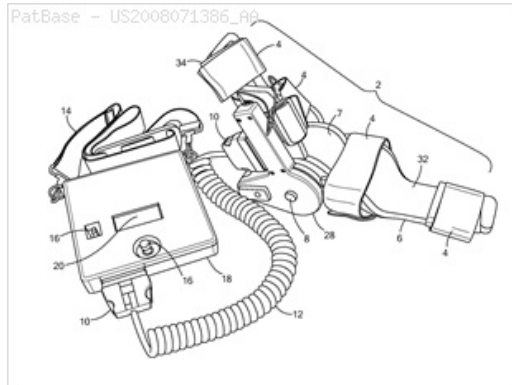
A61H2201/165 A61H2201/1676 A61H2201/5035 A61H2201/5058

A61H2230/605

European: A61F5/01D5 A61F5/01D7 K61B5/11P K61H1/02

US: 1/1 600/546 601/24 601/33 601/34 601/34S 601/5 602/16

602/16P 602/20 606/16 623/25 623/25P



Family:

Publication number	Publication date	Application number	Application date
CA2979894 AA	20170914	CA20162979894	20160615
CN107960054 A	20180424	CN201680032072	20160615
DE602007028002 D1	20130307	DE200760028002T	20070919
EP2079361 A2	20090722	EP20070842788	20070919
EP2079361 B1	20130109	EP20070842788	20070919
EP3307225 A1	20180418	EP20160745216	20160615
HK1251447 A1	20190201	HK20180111066	20180828
JP2010504167 T2	20100212	JP20090529365T	20070919
JP2018519004 T2	20180719	JP20170557197T	20160615
JP5557529 B2	20140723	JP20090529365T	20070919
US2008071386 AA	20080320	US20070857881	20070919
US2009227925 AA	20090910	US20090406732	20090318
US2014142474 AA	20140522	US20130081554	20131115
US2016287422 AA	20161006	US20160183279	20160615
US8585620 BB	20131119	US20090406732	20090318
US8926534 BB	20150106	US20070857881	20070919
US9398994 BB	20160726	US20130081554	20131115
WO08036746 A2	20080327	WO2007US78900	20070919
WO08036746 A3	20080710	WO2007US78900	20070919
WO16205356 A1	20161222	WO2016US37607	20160615

Priority:

US20060826188P 20060919	US20070889773P 20070214	EP20070842788 20070919
US20070857881 20070919	WO2007US78900 20070919	US20080037556P 20080318
US20090406732 20090318	US20130081554 20131115	US20150175765P 20150615
US20160183279 20160615	WO2016US37607 20160615	

Probable Assignee: MYOMO INC

Assignee(s): (std): MCBEAN JOHN M ; MYOMO INC ; NARENDRAN KAILAS ; NARENDRAN KALAIS N

Assignee(s): TACY GENE ; HARLAN ANDREW ; KELLY STEPHEN R ; KESNER SAMUEL

Inventor(s): (std): MCBEAN JOHN M ; NARENDRAN KALAIS N ; NARENDRAN KAILAS ; KESNER SAMUEL ; KELLY STEPHEN R ; HARLAN ANDREW ; TACY GENE ; NARENDRAN KAILAS N

Inventor(s): MCBEAN JOHN M BOSTON ; NARENDRAN KALAIS N SOUTH BURLINGTON

Agent(s): GOWLING WLG CANADA LLP; PATENTANWAELE WALLACH KOCH DR HAIBACH FELDKAMP; BIRKEN LARS; BOYCE CONOR; HANNA MOORE AND CURLEY; HONG KONG FASTA INTELLECTUAL PROPERTY LTD; BROMBERG AND SUNSTEIN LLP; SUNSTEIN KANN MURPHY AND TIMBERS LLP; SUNSTEIN BRUCE D ET AL

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

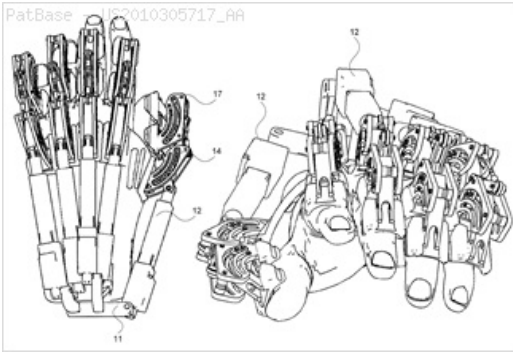
Title: WEARABLE POWER ASSISTIVE DEVICE FOR HELPING A USER TO MOVE THEIR HAND

Abstract: A **rehabilitation** system (10) for training hand movement of a user, the system comprising: a platform (24) to be attached to the hand of the user; a plurality of finger assemblies (71) operatively connected to the platform (24), each finger assembly (71) having: a motor (12), a proximal follower assembly (13) for a metacarpophalangeal (MCP) joint having a proximal rail guide (14) operatively connected to the motor (12), and an intermediate follower assembly (16) for a proximal interphalangeal (PIP) joint having an intermediate rail guide (17) operatively connected to the proximal follower assembly (13); wherein a knuckle joint indicator (22) of the proximal rail guide (14) corresponds to a first **virtual** center

(30) and knuckle joint indicator (25) of the intermediate rail guide (17) corresponds to a second **virtual** center (31), the alignment of the knuckle joint indicators (22, 25) to the **virtual** centers (30, 31) enable motion of the finger to be controlled and maintain rotational axes of the finger about each **virtual** center (30, 31) when the proximal and intermediate follower assemblies (13, 16) are actuated by the motor (12).

Classifications:

International (IPC 8-9): A61F2/54 A61H1/02
A63B23/16 (Advanced/Invention)
CPC: A63B21/4019 A63B21/4021 A63B21/4035 A63B21/4047
B25J9/0006 A61H1/0285 A61H1/0288 A61H2201/0157
A61H2201/0192 A61H2201/123 A61H2201/1261 A61H2201/1638
A61H2201/165 A61H2201/1676 A61H2201/5007 A61H2201/5025
A61H2201/5061 A61H2201/5064 A61H2230/605 A63B21/00181
A63B23/14 A63B23/16 A63B24/0006 A63B71/0622 A63B2071/0627
A63B2071/0647 A63B2220/10 A63B2220/51 A63B2230/605
European: A61H1/02M5 A61H1/02M5F A63B21/00T A63B21/14A8H
A63B21/14A8W A63B21/14K4H A63B21/14M6 A63B23/14 A63B23/16
A63B24/00A1 A63B71/06D2 B25J9/00E K61H201/01H K61H201/01U
K61H201/12A4 K61H201/12D2 K61H201/16A14A K61H201/16A20
K61H201/16B12 K61H201/50C K61H201/50F1 K61H201/50S2
K61H201/50S4 K61H230/60A K63B220/10 K63B220/51 K63B230/60A
K63B71/06D2A2 K63B71/06D3
US: 601/40 601/5 623/64 623/64P



Family:

Publication number	Publication date	Application number	Application date
CN101897643 A	20101201	CN201010183113	20100526
CN101897643 B	20140205	CN201010183113	20100526
EP2436358 A1	20120404	EP20100780074	20100526
EP2436358 A4	20121114	EP20100780074	20100526
EP2436358 B1	20180425	EP20100780074	20100526
US2010305717 AA	20101202	US20090472295	20090526
US8574178 BB	20131105	US20090472295	20090526
WO10135993 A1	20101202	WO2010C073267	20100526

Priority:

US20090472295 20090526 WO2010C073267 20100526

Probable Assignee: HONG KONG POLYTECHNIC UNIV

Assignee(s): (std): CHAN DAVID TAI WAI ; CHAN TAI WAI DAVID ; CHEN MO ; HO SIE KIT ; HO SZE KIT ; PANG PETER MAN KIT ; ZHOU HONGFU ; TONG KAI YU ; UNIV HONG KONG POLYTECHNIC ; PANG MAN KIT PETER

Assignee(s): HONG KONG POLYTECHNIC UNIV ; THE HONG KONG POLYTECHNIC UNIVERSITY

Inventor(s): (std): PANG PETER MAN KIT ; ZHOU HONGFU ; CHAN DAVID TAI WAI ; CHEN MO ; TONG KAI YU ; HO SZE KIT ; CHAN TAI WAI DAVID ; HO SIE KIT ; PANG MAN KIT PETER ; YU TONG KAI ; MO CHEN ; DAVID CHAN TAI WAI ; KIT HO SIE ; HONGFU ZHOU ; PETER PANG MAN KIT

Agent(s): VOGEL ANDREAS; MUNCY GEISSLER OLDS AND LOWE PLLC; SHENZHEN STANDARD PATENT AND TRADEMARK AGENT LTD

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

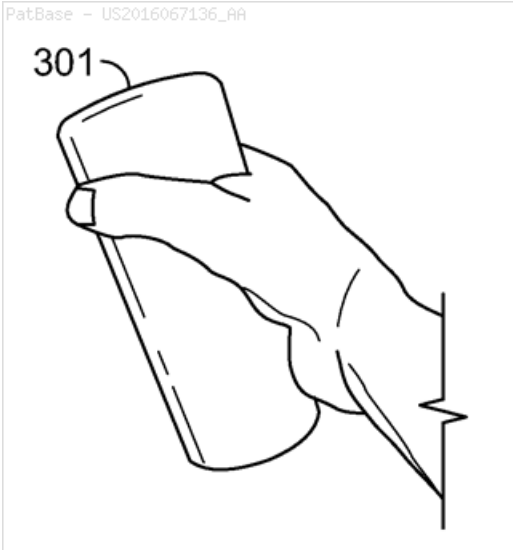
9) Family number: 57836226 (US2016067136A) © PatBase

Title: GAME-BASED SENSORIMOTOR REHABILITATOR

Abstract: Treatment of neurological injury through motor relearning. A game-based sensorimotor rehabilitator that enables individuals to interact with the functional objects using the appropriate amount of force, tilt, finger movement, and muscle activity to regain lost skill due to injury.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/11 A61B5/22 A61H1/02
A63B21/072 A63F13/212 A63F13/218 A63F13/24 A63F13/428
G06F19/00 G06F3/01 G06F3/0346 G09B19/00 (Advanced/Invention);
A63B21/00 A63B21/06 A63B22/00 A63B23/12 A63B23/16
A63B24/00 A63B71/00 A63B71/06 G06F3/01 (Advanced/Non-invention)
CPC: G06F3/017 A61B5/744 A61B5/1114 A61B5/1125 A61B5/1126
A61B5/225 A61B5/486 A61B5/6804 A61B5/6806 A61B5/6823
A61B5/7455 A61B2505/09 A61B2562/0219 A61B2562/0257
A63B21/00061 A63B21/0602 A63B21/072 A63B22/00 A63B23/1209
A63B23/1245 A63B23/16 A63B24/0087 A63B71/0009 A63B71/0622
A63B2022/0092 A63B2022/0094 A63B2024/0096 A63B2071/0625
A63B2071/065 A63B2071/0655 A63B2071/0658 A63B2071/0661
A63B2209/10 A63B2220/10 A63B2220/40 A63B2220/51
A63B2220/52 A63B2220/54 A63B2220/58 A63B2225/02
A63B2225/20 A63B2225/50 A63B2230/60 A63F13/212 A63F13/218
A63F13/24 A63F13/428 G06F3/011 G06F3/014 G06F3/016
G06F3/0346 G06F19/3481 G09B19/003 G16H20/30
US: 601/40 601/46



Family:

Publication number	Publication date	Application number	Application date
EP2996551 A1	20160323	EP20140798022	20140515

EP2996551 A4	20170125	EP20140798022	20140515
US2016067136 AA	20160310	US20150942971	20151116
US10299738 BB	20190528	US20150942971	20151116
WO14186537 A1	20141120	WO2014US38124	20140515

Priority:

US20130824258P 20130516 WO2014US38124 20140515 US20150152315P 20150424
US20150942971 20151116

Probable Assignee: UNIV NEW YORK

Assignee(s): (std): UNIV NEW YORK

Assignee(s): NEW YORK UNIV

Inventor(s): (std): RAGHAVAN PREETI ; KAPILA VIKRAM

Agent(s): LAWRENCE JOHN; FOLEY AND LARDNER LLP; MARTIN MATTHEW 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

10) Family number: 53673233 (US2013113704A)

© PatBase

Title: DATA FUSION AND MUTUAL CALIBRATION FOR A SENSOR NETWORK AND A VISION SYSTEM

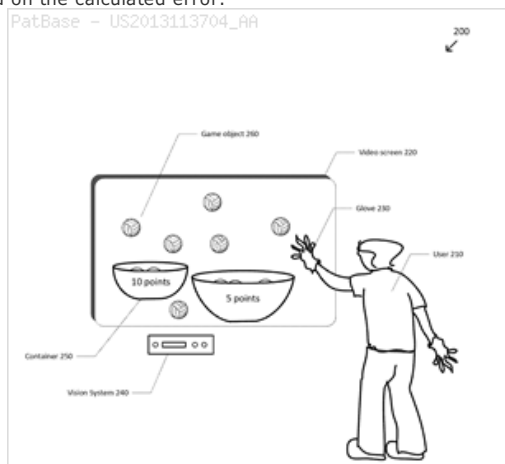
Abstract: A system includes a contoured sensor network including a plurality of sensors. Each sensor provides sensor information indicating a movement of at least one portion of the sensor network. The system further includes a vision system and a reconciliation unit that receives sensor information from the contoured sensor network, receives location information from the vision system, and determines a position of a portion of the contoured sensor network. The reconciliation unit further calculates an error and provides calibration information based on the calculated error.

Classifications:

International (IPC 8-9): G06F3/033 (Advanced/Invention)

CPC: A63F13/213 G06F3/005 G06F3/011 G06F3/014 G06F3/017 G06F2203/0381 A63F13/211 A63F13/212 A63F13/22 A63F13/327 G06F3/038

US: 345/158



Family:

Publication number	Publication date	Application number	Application date
US2013113704 AA	20130509	US20120668159	20121102

Priority:

US20110556053P 20111104 US20120668159 20121102

Probable Assignee: THE UNIV OF CALIFORNIA

Assignee(s): (std): UNIV CALIFORNIA

Assignee(s): THE REGENTS OF THE UNIVERSITY OF CALIFORNIA ; THE UNIV OF CALIFORNIA

Inventor(s): (std): CHEN ETHAN ; HUANG MING CHUN ; SARRAFAZADEH MAJID ; SU YI ; XU WENYAO

11) Family number: 57355235 (US2014253504A)

© PatBase

Title: MOBILE ELECTRONIC DEVICE WITH SENSORS

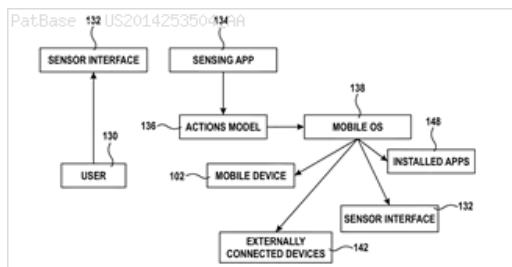
Abstract: The present application discloses a system comprising a mobile device and an assembly of sensors that are attached to the device and that provide added control functions of the device. The sensors may consist of flex pressure or motion sensors or essentially any sensor construct that can receive tactile input from the touch of a user. The sensors are connected to the device through input-output pins or through a proprietary wireless communication protocol. The sensors transfer user actions to provide commands to the device to operate the specific functionalities associated with the sensor data. In certain embodiments, the pressure sensors are formed in an array such that a chain of sensor inputs maps a movement by the user to an action performed by the device. With the appropriate mechanical expedients, haptic capabilities are provided such that feedback to the user is provided by pressure or vibration sensations on the device.

Classifications:

International (IPC 8-9): G06F3/041 H04M1/725 (Advanced/Invention)

CPC: H04M1/72527 H04M1/7253 H04M1/72575 H04M2250/12 G06F3/0414 G06F1/1626 G06F1/1656 G06F1/1671 G06F1/169 G06F3/016 G06F3/017 G06F3/03547 G06F3/04883 G06F2203/0339

US: 345/174



Family:

Publication number	Publication date	Application number	Application date
US2014253504 AA	20140911	US20140198459	20140305

Priority:

US20130773004P 20130305 US20140198459 20140305

Probable Assignee: SCIENCE RANGER CORP

Assignee(s): (std): SCIENCE RANGER CORP

Inventor(s): (std): NOSHADI HYDUKE ; AZIMA CYRUS ALEXANDER

12) Family number: 61451248 (US2016015280A)

© PatBase

Title: EPIDERMAL ELECTRONICS TO MONITOR REPETITIVE STRESS INJURIES AND ARTHRITIS

Abstract: Systems and methods are described for monitoring, treating, and preventing a repetitive stress injury, arthritis or other medical condition. A system embodiment includes, but is not limited to, a deformable substrate configured to interface with a skin surface; a sensor assembly coupled to the deformable substrate, the sensor assembly including a motion sensor and a physiological sensor, the sensor assembly configured to generate one or more sense signals based on detection of a movement of a body portion by the motion sensor and a physiological parameter of the body portion by the physiological sensor; a processor operably coupled to the sensor assembly and configured to receive the one or more sense signals; and an effector operably coupled to the processor and configured to affect the body portion responsive to control by the processor.

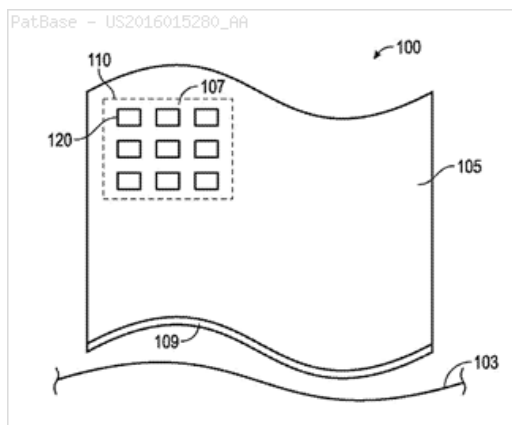
Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/04 A61B5/0402 A61B5/0488 A61B5/0496 A61B5/103 A61B5/11 A61B5/117 A61B5/145 A61H23/00 A61H23/02 A61M5/142 A61N1/04 A61N1/36 A61N1/372 A61N1/378 A61N2/00 A61N5/06 A61N5/067 A61N7/00 G01B11/00 G01P15/00 G06F19/00 G16H20/30 G16H40/63 G16H50/30 H02J5/00 H02J50/10 H02J7/02 (Advanced/Invention); A61B5/01 A61B5/021 A61B5/024 A61B5/026 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/053 A61B5/08 A61B5/145 A61M5/14 A61N1/04 B32B25/08 B32B25/20 B32B27/08 B32B3/08 B32B7/12 H02J50/12 (Advanced/Non-invention)

CPC: A61B5/1118 A61N1/37247 A61N1/37282 A61N1/3787 A61B5/4824 A61N2007/0078 A61N2/002 A61N2/008 A61B2090/365 A61B5/7278 A61B5/4833 A61H23/00 A61B2562/0261 A61B5/053 A61M5/14244 A61M5/14248 A61M5/1723 A61M2230/00 A61M2230/005 A61M2230/04 A61M2230/20 A61M2230/50 A61M2230/62 A61M2230/63 A61N2/006 A61N5/0622 H02J7/025 H02J50/10 H02J50/12 A61B2562/0215 A61B5/1116 A61B5/1125 A61B5/1127 A61B5/4514 A61B5/4528 A61B5/4585 A61B5/459 A61B2503/08 A61B2560/0214 A61B2562/0219 A61B5/683 A61B5/6831 A61B5/6832 A61M5/14 A61B5/11 A61B5/04

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US: 600/301 600/595 601/2 601/46 607/48



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Priority:

US20140334434 20140717 US20140504944 20141002 US20140504954 20141002
US20160361953 20161128 US20160361999 20161128 US20160386434 20161221
US20160386470 20161221 US20180869989 20180112

Probable Assignee: ELWHA LLC

Assignee(s): (std): ELWHA LLC ; TOKITAE LLC

Inventor(s): (std): TEGREENE CLARENCE T ; MALAMUD MARK A ; WOOD JR LOWELL L ; HYDE RODERICK A ; WHITMER CHARLES ; KARE JORDIN T ; LEUTHARDT ERIC C ; SWEENEY ELIZABETH A ; PAN TONY S ; CHAN ALISTAIR K ; TUCKERMAN DAVID B ; SHARADIN KATHERINE E ; MCKNIGHT GARY L ; GOODALL ELEANOR V ; WOOD LOWELL L JR ; WOOD LOWELL L ; MCKNIGHT GARY ; TEGREENE CLARENCE ; LEUTHARDT ERIC ; GOODALL ELEANOR ; SHARADIN KATHERINE ; SWEENEY ELIZABETH ; WOOD LOWELL ; KARE JORDIN ; MALAMUD MARK ; PAN TONY ; HYDE RODERICK

Inventor(s): A HYDE RODERICK A ; T KARE JORDIN T ; A MALAMUD MARK A ; L MCKNIGHT GARY L ; E SHARADIN KATHERINE E ; T TEGREENE CLARENCE T ; L JR WOOD LOWELL L JR ; WOOD JR

Agent(s): HONZ DANIEL J ; ADVENT LLP ; MALASKA STEPHEN L ET AL

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

13) Family number: 40893268 (WO07138598A2)

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Title: BRAIN STIMULATION AND **REHABILITATION** FIELD OF THE INVENTION

Abstract: A method of **rehabilitation** management, comprising: providing a plurality of patients fitted with sensors; assigning tasks to said patients by a therapist; **rehabilitating** said patients not under the direct attention of said therapist; and monitoring the **rehabilitating** using data acquired by the sensors during performance of the tasks.

Classifications:

International (IPC 8-9): G06F19/00 G06Q10/00 (Advanced/Invention); G06F19/00 (Core/Invention)

CPC: A61B5/6814 A61B5/04008 A61B5/0478 A61B5/0484 A61B5/0488 A61B5/11 A61B5/14553 A61B5/486 A61B5/702 A61N1/0484 A61N1/205 A61N1/36025 A61B5/4064

European: A61B5/0478 A61B5/0484 A61B5/1455N4 A61B5/48S A61B5/68B2B A61B5/70J K61B5/0488 K61B5/04M4 K61B5/11

PatBase - WO07138598_A2

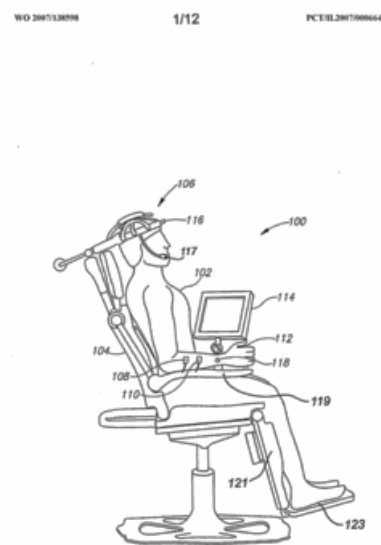


FIG.1

Family:

Publication number	Publication date	Application number	Application date
WO07138598 A2	20071206	WO2007IL00664	20070531
WO07138598 A3	20160609	WO2007IL00664	20070531

Priority:

US20060803638P 20060601

Probable Assignee: TYLERTON INT INC

Assignee(s): (std): BETSER SAGIT ; EINAV HAIM ; EINAV OMER ; FARAN SAMUEL ; KORENMAN ERNESTO ; LIFSHITZ AMIR ; TYLERTON INT INC ; OYZERMAN ANNA ; MAHONEY RICHARD M ; TYLERTON INTERNAT INC

Assignee(s): TYLERTON INTERNATIONAL INC

Inventor(s): (std): EINAV OMER ; EINAV HAIM ; MAHONEY RICHARD M ; OYZERMAN ANNA ; KORENMAN ERNESTO ; BETSER SAGIT ; LIFSHITZ AMIR ; FARAN SAMUEL

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

14) Family number: 62070435 (US9311789B)

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Title: SYSTEMS AND METHODS FOR SENSORIMOTOR **REHABILITATION**

Abstract: A sensorimotor **rehabilitation** system can analyze body movement kinematics of a person, and in particular analyze the use of limbs (e.g., upper limbs) to provide feedback for sensorimotor **rehabilitation**. Parameters of body movement (e.g., quantity and type of body movement) can be assessed based on data recorded from an inertial sensor

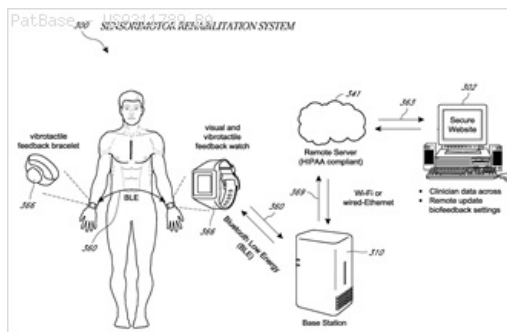
affixed or connected to, for example, an upper limb of a person or outer clothing such as a sleeve. Automated feedback can be provided to the user to improve sensorimotor **rehabilitation**.

Classifications:

International (IPC 8-9): G05B1/01 G08B1/08 G08B23/00 G08C19/00 (Advanced/Invention)

CPC: G08C19/00 A61B5/002 A61B5/11 A61B5/486 A61B5/681 A61B5/74 A61B2505/09

US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US9311789 BA	20160412	US20140248956	20140409

Priority:

US20130810141P 20130409 US20140248956 20140409

Probable Assignee: BIOSENSICS LLC

Assignee(s): (std): BIOSENSICS LLC

Inventor(s): (std): GWIN JOSEPH T

Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP

15) Family number: 62153445 (US2016110515A)

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Title: METHOD AND SYSTEM FOR MICROBIOME-DERIVED DIAGNOSTICS AND THERAPEUTICS

Abstract: A method for diagnosing and treating an immune microbial dysfunction in a subject, the method comprising: receiving an aggregate set of biological samples from a population of subjects; generating at least one of a microbiome composition dataset and a microbiome functional diversity dataset for the population of subjects; generating a characterization of the immune microbial dysfunction based upon features extracted from at least one of the microbiome composition dataset and the microbiome functional diversity dataset, wherein the characterization is diagnostic of at least one of Crohn's disease, inflammatory bowel disease (IBD), irritable bowel syndrome (IBS), ulcerative colitis, and celiac disease; based upon the characterization, generating a therapy model configured to correct the immune microbial dysfunction; and at an output device associated with the subject, promoting a therapy to the subject based upon the characterization and the therapy model.

Classifications:

International (IPC 8-9): A61B1/00 A61B5/00 A61B5/05 A61K35/74 A61K35/741 A61K35/742 A61K35/744 A61K35/745 A61K35/747 A61K38/08 A61K45/06 A61P1/00 A61P31/04 A61P43/00 C12N15/10 C12N15/11 C12N15/66 C12Q1/00 C12Q1/02 C12Q1/04 C12Q1/06 C12Q1/24 C12Q1/68 C12Q1/6806 C12Q1/6809 C12Q1/6811 C12Q1/6855 C12Q1/686 C12Q1/6869 C12Q1/6874 C12Q1/6876 C12Q1/6883 C12Q1/6888 C12Q1/689 C12Q1/6895 C40B30/02 C40B40/06 G01N33/48 G01N33/487 G01N33/564 G01N33/569 G01N33/58 G01N35/00 G06F19/00 G06F19/10 G06F19/12 G06F19/14 G06F19/18 G06F19/20 G06F19/22 G06F19/24 G06F19/26 G06F19/28 G06G7/58 G16B10/00 G16B20/00 G16B25/10 G16B30/00 G16B30/10 G16B35/00 G16B40/00 G16B50/00 G16B50/00 G16B99/00 G16C10/00 G16C20/60 G16H10/40 G16H10/60 G16H20/10 G16H20/60 G16H50/20 G16H50/30 G16H50/50 G16H50/70 G16H70/60 H01L27/32 H01L51/00 H01L51/52 (Advanced/Invention); A61K35/741 C12Q1/00 C12Q1/689 G01N33/48 G06G7/58 (Advanced/Non-invention)

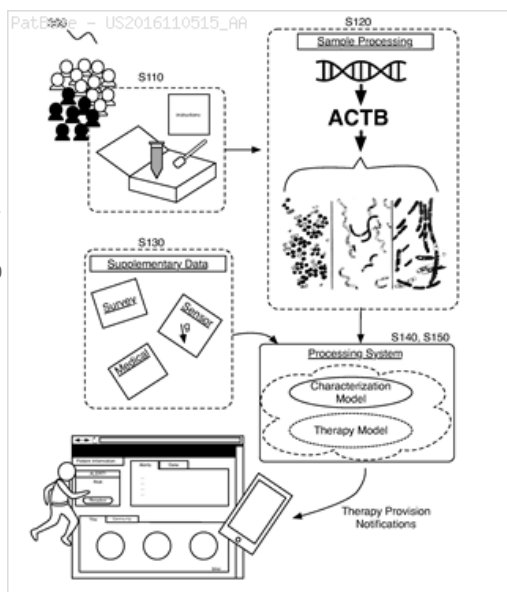
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CPC: A61B5/4836 A61B5/4233 C12Q2600/112 A61B5/0022 C12Q2600/16 C12Q2600/158 C12Q2600/106 G01N2800/28 G06F19/3456 G01N2333/195 A61K2035/115 G06F19/325 G06F19/324 A61B5/4211 A61B5/4839 A61K35/742 A61K35/747 A61K35/744 A61K35/745 A61K45/06 C12Q1/6844 A61K35/00 G06F19/3481 C12Q1/002 G01N2570/00 G01N2800/301 G01N2800/304 G01N2800/305 C12Q1/6806 G06F19/30 G01N35/0099 G01N2035/00881 G01N33/48792 G01N2800/044 G01N2800/32 G01N2800/24 A61K35/741 G01N2800/30 Y02A90/24 G01N2333/33 G01N33/569 C12Q1/04 C12Q1/24 A61B5/4848 A61B5/746 A61B5/7465 G16H50/80 H01L51/5265 H01L51/0097 H01L51/5284 H01L2251/5338 H01L27/3211 H01L51/5234 H01L27/322 H01L51/5281 G16H15/00 Y02A50/471 H01L27/3272 C12Q1/6809 A61B1/00 C12Q2600/156 C12Q1/6876 C12Q1/6869 G16H20/60 C12Q1/6874 A61K35/74 G16H10/60 Y02A50/57 G01N33/48 C12Q1/6886 C12N15/1065 C12N15/1093 G06F19/345 C12Q1/00 G01N33/56911 G01N33/6893 G16H20/70 G16B25/00 G16C99/00 G16H70/60 G06F19/12 C12Q1/6888 G16H20/00 G06F19/18 G06F19/24 G01N33/98 G16H50/30 C12N15/1096 C12N15/11 C12Q1/6811 C40B40/06 C12N15/1013 C12N15/66 C12Q1/6855 C12Q1/686 G16B40/20 G16H40/67 C40B50/04 C40B50/14 C40B70/00 G06F19/22 G06F19/10 G06F19/28 G16B20/00 G16H20/13 C40B30/02 C12Q1/68 C12Q1/6883 C12Q1/689 C12Q2600/118 G16B50/00 G16H20/10 G16B30/10 G16B50/20 G16B50/30 G06F19/00 A61B5/4824 G16B20/50 G16B40/00 G16B35/00 G16B50/00 G16C20/60 G16H50/70 Y02A90/26 G16B50/50 C12Q1/06 G16B20/40 G16B40/30 G16B25/10 G16B99/00 G06F19/3418 G16B10/00 G16H10/40 G16H20/40 G16H40/63 G16H50/20 G16H50/50

US: 1/1 424/93.4 424/93.41 435/6.12 506/2 506/7 506/8 702/19 705/2

Family:

Publication number	Publication date	Application number	Application date
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Agent(s): PIPERS ; CLARK INTELLECTUAL PROPERTY PTY LTD ; BERESKIN AND PARR LLP SENCRL SRL ; BENOIT AND COTE INC ; STANNERS DAVID RALPH ; ALGEMEEN OCTROOI EN MERKENBUREAU BV ; JEFFREY ; IVAN ; KILPATRICK TOWNSEND AND STOCKTON LLP ; SCHOX JEFFREY ; RACZKOWSKI DAVID B 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 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

16) Family number: 63842445 (US2018081439A)

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Title: WEARABLE ELECTRONIC, MULTI-SENSORY, HUMAN/MACHINE, HUMAN/HUMAN INTERFACES

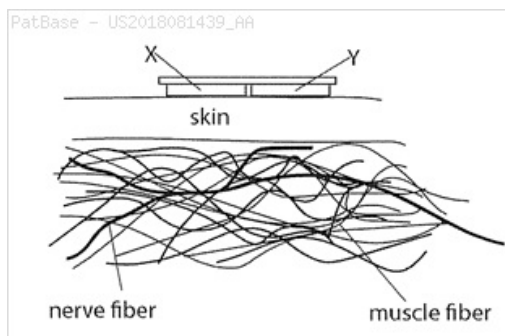
Abstract: A wearable Haptic Humaxi/Machine Interface (HHMI) receives electrical activity from muscles and nerves of a user. An electrical signal is determined having characteristics based on the received electrical activity. The electrical signal is generated and applied to an object to cause an action dependent on the received electrical activity. The object can be a biological component of the user, such as a muscle, another user, or a remotely located machine such as a drone. Exemplary uses include mitigating tremor, accelerated learning, cognitive therapy, remote robotic, drone and probe control and sensing, **virtual** and augmented reality, stroke, brain and spinal cord **rehabilitation**, gaming, education, pain relief, entertainment, remote surgery, remote participation in and/or observation of an event such as a sporting event, biofeedback and remotality. Remotality is the perception of a reality occurring remote from the user. The reality may be remote in time, location and/or physical form. The reality may be consistent with the natural world, comprised of an alternative, fictional world or a mixture of natural and fictional constituents.

Classifications:

International (IPC 8-9): A61K39/295 A63B69/00

G06F3/01 (Advanced/Invention)

CPC: G06F1/163 G06F3/011 G06F3/016 G06F3/014 G06F3/015



Family:

Publication number	Publication date	Application number	Application date
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WO16168117 A3	20161124	WO2016US26930	20160411

Priority:

US20150147016P 20150414 US20150253767P 20151111 WO2016US26930 20160411
US20160562752 20160411

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Assignee(s): (std): DANELS JOHN JAMES ; DANIELS JOHN JAMES

Inventor(s): (std): DANIELS JOHN JAMES ; DANELS JOHN JAMES

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: 11839475 (US2004046736A)

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Title: NOVEL MAN MACHINE INTERFACES AND APPLICATIONS

Abstract: Affordable methods and apparatus are disclosed for inputting position, attitude (orientation) or other object characteristic data to computers for the purpose of Computer Aided Design, Painting, Medicine, Teaching, Gaming, Toys, Simulations, Aids to the disabled, and internet or other experiences. Preferred embodiments of the invention utilize electro-optical sensors, and particularly TV Cameras, providing optically inputted data from specialized datum's on objects and/or natural features of objects. Objects can be both static and in motion, from which individual datum positions and movements can be derived, also with respect to other objects both fixed and moving. Real-time photogrammetry is preferably used to determine relationships of portions of one or more datums with respect to a plurality of cameras or a single camera processed by a conventional PC.

Classifications:

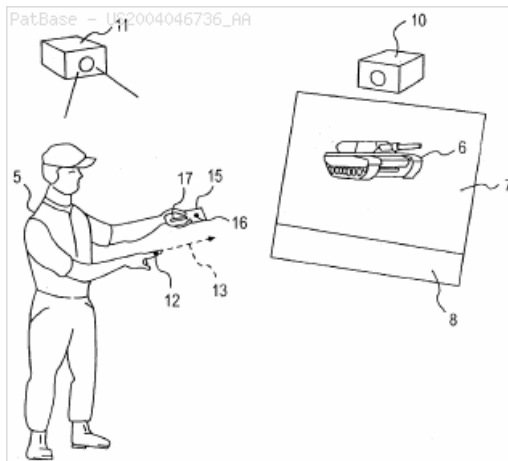
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International (ipc 1-7): A63F9/24 B60K1/00 G06F19/00 G06K9/00 G09G5/00 G09G5/08

CPC: A63F7/027 A63F2003/00974 A63F2009/243 A63F2009/2435 A63F2009/2457 G06F3/0423 G06F2203/0381 H04N9/3129 G06F2203/04808 Y10S128/92 Y10S128/921 Y10S128/922 A63F2300/8023 G06F3/01 G06K9/00335 G06K9/2018 G06T2207/10021 G06T2207/30196 G06T2207/30204 A63B24/0062 A63B71/06 A63B24/0075 G06F19/3475 G06F19/3481 G06Q30/06 A63F2300/1043 A63F2300/1062 A63F2300/1081 A63F2300/6045 A63F2300/69 G06F3/038 G06F3/0428 G06F19/3418 G10H1/0008 G10H2220/321 G06T2219/2016 G06T2219/2021 G06F3/0346 G06F17/5095 G06F2217/32 G05B19/0423 A47L5/0063 G01F23/292 G05B2219/23031 G05B2219/2643 G05B2219/31048 A63F2300/1093 F24C7/082 H05B6/6435 H05B2213/04 Y10S482/90 Y10S482/901 G06F3/042 B60K37/02 G06F3/0421 G06F3/04886 G01C21/365 G01C21/265 G06T19/20 G06F2203/04109 G06F3/012 G06F3/014 A63F13/213 A63F13/245 A63F13/803 A63F13/428 A63F13/2145 A63F2300/1075 A63F2300/1087 A63F2300/30 A63F2300/308 A63F2300/8011 G07F17/3297 G06F3/0304 G06F3/0325 G06F3/011 A63F3/00643 A63F7/0005 A63F2009/0012 A63F2009/2419 A63F2009/2433 A63F2250/50 A63F2300/1068 G06F2203/04101 G01S5/16 G01C21/3664 G06F3/0312 G06F3/03545 G06F3/04847 G06F3/0488 G06F2203/04108 G06F2203/04809 G06T7/246 G06T7/593 G06T7/73 B33Y50/00 G06F3/016 G06F3/017 G06F3/0416 G06F3/04883 G16H40/63 G16H50/50 G16H20/30 A63F13/06 A63F13/10 A63F13/00 A63F13/02 A63F13/04 B60K2370/126 B60K2370/143 B60K2370/1438 B60K2370/145 B60K2370/152 B60K2370/155 B60K2370/122 B60K2370/1868 B60K2370/21 B60K2370/774 B60K2370/736 B60K2370/11 B60K2370/334 B60K2370/146 B60K2370/148 B60K2370/55 B60K35/00 B60K37/06 B60R11/02 B60R11/0235 B60R2011/0005 B60R2011/0007 B60R2011/0012 B60R2011/0028 B60R2011/0029 B60R2011/0042 B60R2011/0094 G06F3/0425 G06F3/0426 B60K2370/111 B60K2370/133 B60K2370/1468 B60K2370/1472 B60K2370/1476 B60K2370/197 B60K2370/341 B60K2370/566

European: A63B71/06 A63F13/00 A63F13/02 A63F13/04 A63F13/06 A63F13/10 A63F3/00E A63F7/02P1 B60K35/00 B60K37/02 B60K37/06 B60R11/02 B60R11/02E2 G01C21/26C G01C21/36 G01C21/36G7 G01C21/36K G01F23/292 G01S5/16 G05B19/042N G06F17/50V G06F19/34A G06F19/34H G06F19/34M G06F19/34N G06F19/34O G06F3/00B8 G06F3/00B8G G06F3/01 G06F3/01B G06F3/01F G06F3/01G G06F3/033D G06F3/033Z2 G06F3/033Z8E G06F3/0346 G06F3/0354N G06F3/038 G06F3/03H G06F3/03H6 G06F3/041T G06F3/042 G06F3/042B G06F3/042B4 G06F3/042C G06F3/042C1 G06F3/042P G06F3/0484P G06F3/0488 G06F3/0488G G06F3/0488T G06K9/00G G06K9/20C G06Q30/06 G06T19/00 G06T19/00R G06T7/00P1 G06T7/00R7S G06T7/20C G07F17/32P10 G10H1/00M H04N9/31B K63B24/00H K63F250/50 K63F3/00E K63F3/00Q5 K63F300/10M K63F300/10S K63F300/10T K63F300/10T1 K63F300/10V K63F300/10X K63F300/10X1 K63F300/30 K63F300/30M K63F300/60N K63F300/69 K63F300/80B K63F300/80E K63F7/00B K63F9/00D2 K63F9/24N2B K63F9/24N3 K63F9/24N3A1 K63F9/24N3B K63F9/24P2S L60K350/10J3 L60K350/10J5 L60K350/10J5D L60K350/10N1 L60K350/10N4 L60K350/20C L60K350/90A L60K350/92L3 L60K350/96A L60R11/00P1A L60R11/00P1B L60R11/00P1F L60R11/00P1L L60R11/00P1M L60R11/00R L60R11/00T S05B219/23031 S05B219/2643 S05B219/31048 S06F19/34C S06F19/34H S06F19/34M S06F203/0381 S06F203/04101 S06F203/04108 S06F203/04109 S06F203/04808 S06F203/04809 S06F217/32 S06T207/10021 S06T207/30196 S06T207/30204 S10H220/321

US: 1/1 116/205 116/205S 128/920 128/921 128/922 178/18.01 178/18.09 273/237 273/274 307/10.1 340/407.1 340/407.100P 340/407.2 340/407.200P 340/425.5 340/425.500P 345/156 345/156P 345/156S 345/157 345/157P 345/158 345/158P 345/161 345/173 345/173P 345/173S 345/174 345/174P 345/175 345/175P 345/175S 345/177 345/177P 345/184 345/184S 345/419 345/690 345/7 345/7S 348/143 348/169 348/207.1 348/207.100S 348/373 348/373P 348/744 348/744P 348/744S 348/77 348/77S 348/837 348/837S 348/E5.024 348/E5.128 348/E5.137 348/E5.24S 348/E5.128S 348/E5.137S 348/E7.085 348/E7.855 348/E9.025 348/E9.026 348/E9.25S 348/E9.26S 358/1.12 382/103 382/103P 382/104 382/107 382/154 382/176 382/181 382/312 463/1 463/10 463/16 463/30 463/31 463/31P 463/32 463/34 463/36 463/36P 463/36S 463/37 463/4 463/5 463/7 463/8 482/5 482/8 482/8P 482/9 482/900 482/901 600/476 600/558 600/559 600/595 700/17



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US20130849150	20130322	US20130850602	20130326	US20130866839	20130419

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E; ROSS F; HUNT JR ROSS F; JACKSON DOUGLAS E; MORRISON AND FOERSTER LLP; KUBOTA GLENN M ET AL

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

18) Family number: 45962512 (US2010179453A)

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Title: UPPER LIMB MEASUREMENT AND **REHABILITATION** METHOD AND SYSTEM

Abstract: A method for measuring an upper limb reaching capability of a user with an impaired limb is provided. Each upper limb is placed at a default position on a horizontal surface. A target is displayed from among a plurality of targets on the horizontal surface. One of the limbs reaches for the target. Limb choice, position information and elapsed time are sensed and recorded. The reaching limb is retracted to the default position. The displaying step through the retracting step are repeated for each of the plurality of targets, wherein each of the plurality of targets is spaced apart.

Classifications:

International (IPC 8-9): A61B5/103 A61B5/117

A63B71/00 (Advanced/Invention);

A61B5/103 A63B71/00 (Core/Invention)

CPC: A61B5/1118 A61B5/1122 A61B5/1124

European: A61B5/11Q A61B5/11S2 A61B5/11U

US: 273/440 273/441 273/445 482/9 482/9S 600/558 600/587 600/595 600/595P

PatBase - US2010179453_AA



Family:

Publication number	Publication date	Application number	Application date
US2010179453 AA	20100715	US20090619534	20091116
US8419661 BB	20130416	US20090619534	20091116

Priority:

US20080114929P 20081114 US20090619534 20091116

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Agent(s): HOGAN LOVELLS US LLP; DLA PIPER LLP US; DLA PIPER LLP

19) Family number: 56342620 (US2014121018A)

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Title: BIMANUAL INTEGRATIVE **VIRTUAL REHABILITATION** SYSTEMS AND METHODS

Abstract: **Virtual rehabilitation** serious games have gained increasing clinical acceptance in the therapy of large patient populations (stroke and traumatic brain injury). This is due to their ability to motivate the patient, as well as intrinsic large number of movement repetitions they generate. These repetitions are key to inducing brain plasticity and facilitating patient recovery. Unfortunately, bi-manual therapy, while potentially more efficacious, is less developed at this time. We present a novel system and method, for bi-manual game-based integrative therapy that combines physical and cognitive training in integrative game play sessions. It is built around the new Razer Hydra Game interface that track's the patient's arms in 3D and detects trigger pressing. A series of custom games designed to improve focusing, decision making (executive function), short term and long term memory, are played with progressive difficulty.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A63F13/20

A63F13/211 A63F13/218 A63F13/24 A63F13/42 A63F13/44

A63F13/46 A63F13/67 A63F13/85 G06F19/00

G09B5/00 (Advanced/Invention);

A61B5/024 (Advanced/Non-invention)

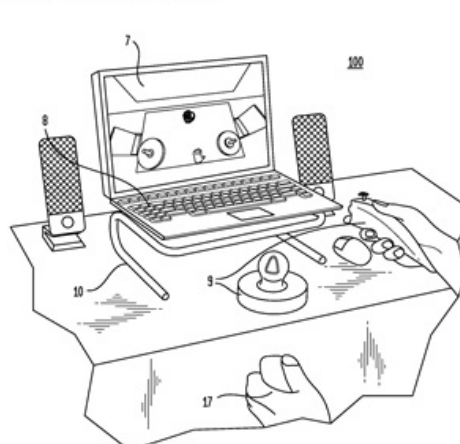
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US: 434/258 463/36

PatBase - US2014121018_AA



Family:

Publication number	Publication date	Application number	Application date
US2014121018 AA	20140501	US20130032360	20130920
US2016038075 AA	20160211	US20150841042	20150831
US2017361217 AA	20171221	US20170669952	20170806
US9724598 BB	20170808	US20130032360	20130920

Priority:

US20120704165P 20120921	US20130869857P 20130826	US20130032360 20130920
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Inventor(s): (std): BURDEA GRIGORE CRISTIAN ; HOUSE GREGORY P ; BURDEA GRIGORE C ; POLISTICO KEVIN ABRAHAM ; KIM NAM HUN ; ROLL DORU TADEUSZ ; KADARU ASWIN

Agent(s): CHIESA SHAHINIAN AND GIANTOMASI PC

20) 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 A61B34/30 A61B5/00 A61B5/04 A61B5/0402 A61B5/0408 A61B5/0476 A61B5/0478 A61B5/0482 A61B5/0484 A61B5/0488 A61B5/0492 A61B5/05 A61B5/055 A61B5/103 A61B5/11 A61B5/16 A61B5/22 A61F5/00 A61H1/00 A61H1/02 A61H23/00 A61H3/00 A61H3/02 A61H3/04 A61H99/00 A61N1/00 A61N1/04 A61N1/05 A61N1/18 A61N1/36 A63B21/00 A63B21/005 A63B21/008 A63B21/012 A63B21/045 A63B21/22 A63B22/00 A63B23/00 A63B23/035 A63B23/04 A63B23/12 A63B24/00 A63B26/00 A63B69/00 A63B71/00 A63B71/06 G06F19/00 G09B11/00 G09B23/28 G09B23/32 G09B9/00 H01R29/00 (Advanced/Invention); A61B5/00 A61B5/04 A61B5/0476 A61B5/0488 A61B5/055 A61B5/11 A61B5/16 A61B5/22 A61H1/00 A61H3/00 A63B22/00 A63B24/00 A63B26/00 A63B71/00 A63B71/06 (Advanced/Non-invention); A47D13/00 A61B19/00 A61B5/00 A61B5/04 A61B5/0402 A61B5/0408 A61B5/0476 A61B5/0488 A61B5/05 A61B5/103 A61B5/11 A61B5/22 A61H1/00 A61H1/02 A61H3/00 A61H99/00 A61N1/00 A61N1/05 A61N1/36 A63B21/00 A63B21/005 A63B21/008 A63B21/012 A63B21/02 A63B23/00 A63B23/035 A63B23/04 A63B24/00 A63B26/00 A63B69/00 A63B71/00 G06F19/00 G09B11/00 G09B23/00 G09B9/00 H01R29/00 (Core/Invention); A61B5/04 A61B5/0476 A61B5/0488 A61B5/055 A61B5/11 A61B5/16 A63B24/00 (Core/Non-invention)

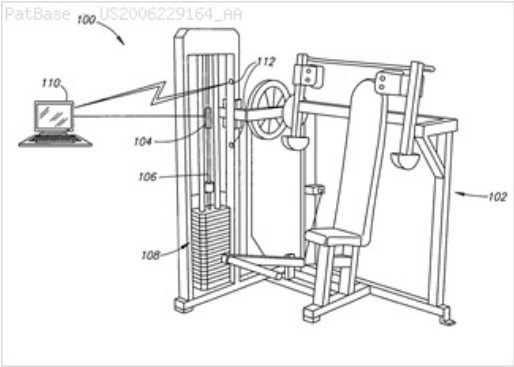
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Family:



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Probable Assignee: MOTORIKA LTD

Assignee(s): (std): REABILITY INC ; KORENMAN ERNESTO ; MAHONEY RICHARD M ; MOTORIKA INC ; MOTORIKA LTD ; BINYAMINI GAD ; EINAV HAIM ; EINAV OMER ; FARAN SAMUEL ; KATZIR ERAN ; ROUSSO BENNY ; SHABANOV DORON ; ZOHAR ESTER ; TYLERTONE INTERNAT INC ; TYLERTON INTERNAT INC ; TYLERTONE INT INC ; TYLERTON INT INC

Assignee(s): SANDLEFORD PARK SECURITY AGENT AS LTD ; TYLERTON INT ; TYLERTONE INT ; TYLERTON INTERNATIONAL INC ; TYLERTONE INTERNATIONAL INC ; KATZIR ERAN AND ; REABILITY INC EINAV OMER ; MOTORIKA LIMITED ; MEDINVEST CAPITAL SA RL ; MORGAN STANLEY BANK INT ; MOTORIKA MEDICAL INC ; MEDINVEST CAPITAL RL SA ; MORGAN STANLEY BANK INT LTD

Inventor(s): (std): EINAV HAIM ; EINAV OMER ; BINYAMINI GAD ; FARAN SAMUEL ; KATZIR ERAN ; KORENMAN ERNESTO ; MAHONEY RICHARD M ; OMER EINAV ; ROUSSO BENNY ; SHABANOV DORON ; ZOHAR ESTER ; GAD EINAV OMER EINAV HAIM ROUS

Inventor(s): HAIM EINAV ; BENNY ROUSSO ; GAD BINYAMINI ; DORON SHABANOV ; EINAV OMER EINAV HAIM ROUSSO BENNY SHABANOV ; EINAV OMER EINAV HAIM ROUSSO BENNY SHABANOV DORON KATZIR ERAN BINYAMINI GAD ; ERAN KATZIR

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

21) Family number: 62055737 (US2016096072A)

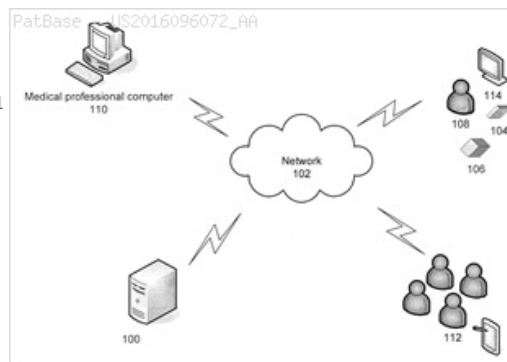
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Title: METHOD AND SYSTEM FOR DETECTING, TRACKING, AND VISUALIZING JOINT THERAPY DATA

Abstract: A user **rehabilitation** system and method that includes authenticating a user with authentication information input, determining a therapy identification, providing a display of a therapeutic sequence of exercises wherein the therapeutic sequence of exercises includes a plurality of primitive motions, receiving a data stream from a motion-sensing device, analyzing the data stream and comparing the data stream to corresponding therapeutic exercises to identify a mistake when a comparison result is below a first **threshold**, updating a mistake counter when the comparing identifies that the user failed to perform a therapeutic exercise adequately, updating an alert counter when the mistake counter is above a second **threshold**, sending a first alert message to a medical professional when the mistake counter is greater than a third **threshold**, sending a second alert message to a caregiver when the alert counter is greater than an alert **threshold**, and recording an evaluation result.

Classifications:

International (IPC 8-9): A61B5/11 A63B24/00 A63F13/211 A63F13/23 A63F13/428 A63F13/67 A63F13/798 G06F19/00 G06F3/01 (Advanced/Invention)
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US: 463/7 482/8



Family:

Publication number	Publication date	Application number	Application date
US2016096072 AA	20160407	US20150877188	20151007
US2016096073 AA	20160407	US20150877209	20151007

Priority:

US20140060981P 20141007 US20150141719P 20150401 US20150877188 20151007
US20150877209 20151007

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Inventor(s): (std): REHMAN FAIZAN UR ; RAHMAN MOHAMED ABDUR ; BASALAMAH SALEH

22) Family number: 44905751 (US2012006891A)

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Title: FACILITATING MOBILE DEVICE PAYMENTS USING PRODUCT CODE SCANNING

Abstract: Provided are computer implemented methods and systems for facilitating mobile device payments using barcodes displayed on mobile devices and scanned by merchants at checkout counters. When a customer is ready to tender a payment to a merchant, instead of using a credit card, cash, or check, the customer activates an application on his mobile device. The mobile device includes or obtains information about the payment system of this merchant. Furthermore, the mobile device includes or obtains information about the customer/mobile device user and then uses these two pieces of information to generate and display a barcode that encodes customer payment information specific to this merchant. The barcode is scanned at the checkout counter and processed to retrieve customer records from a database of the payment processing system. These records are then used to transfer funds between the merchant and customer, obtain discounts, and/or perform other retail transactions.

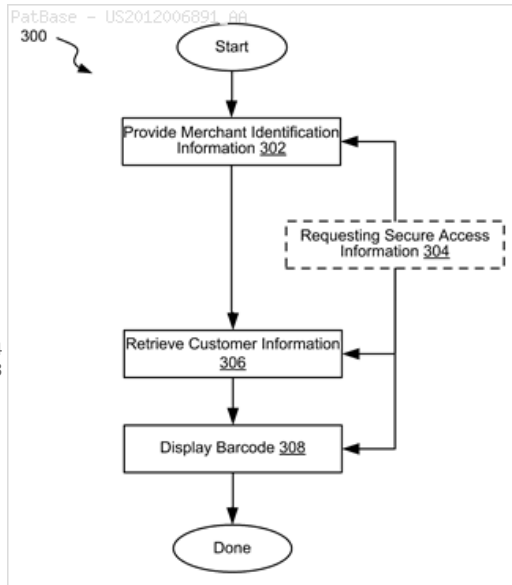
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Family:

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Priority:

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US20170632737	20170626	US20170721934	20171001	US20180885970	20180201
US20180126548	20180910	US20180205283	20181130		

Probable Assignee: AMOBILEPAY INC

Assignee(s): (std): WORLD AWARD ACAD WORLD AWARD FOUND AMOBILEPAY INC ; WORLD AWARD ACAD ; WORLD AWARD FOUND ; WORLD AWARD ACADEMY WORLD AWARD FOUND AMOBILEPAY INC ; XING ZHOU ; XI MARY ; ZHOU DYLAN T X ; ZHOU TIGER T G ; ZHOU DYLAN ; ZHOU TIGER ; ZHOU TIANXING ; ZHOU HAIBIN ; ZHOU TIANGE ; ZHOU DYLAN TX ; AMOBILEPAY INC ; CHENG WESLEY ; DYLAN ZHOU ; GRONBERG MARTIN ; ZHOU ANDREW H B ; ZHOU ANDREW ; XING ZHOU TIAN ; ZHOU TIGER TIAN GE ; ZHOU ANDREW HAI BIN ; ZHOU TIAN XING

Assignee(s): WORLD AWARD ACADEMY ; WORLD AWARD ACADEMY WORLD AWARD FOUNDATION AMOBILEPAY INC ; WORLD AWARD FOUNDATION ; TRAN BAO ; VENTURE LENDING AND LEASING IV INC ; ZHOU ANDREW HB ; ZHOU TIGER TG

Inventor(s): (std): CHENG WESLEY ; GRONBERG MARTIN ; XI MARY M Z ; XI MARY ; ZHOU ANDREW HAI BIN ; ZHOU TIGER TIAN GE ; XING ZHOU ; DYLAN ZHOU ; XING ZHOU TIAN ; ZHOU DYLAN TX ; ZHOU TIANGE ; ZHOU HAIBIN ; ZHOU TIANXING ; ZHOU ANDREW ; ZHOU TIGER ; ZHOU DYLAN ; ZHOU ANDREW H B ; ZHOU TIGER T G ; ZHOU DYLAN T X ; ZHOU TIAN XING

Inventor(s): ZHOU TIGER TG ; ZHOU ANDREW HB

Agent(s): TEALL CHARLOTTE; TRAN AND ASSOCIATES; PATENT JURIST; GEORGIY L; WWWNIELSENPATENTSCOM; STEVEN A; GEORGLY L; NIELSEN STEVEN A; KHAYET GEORGIY L

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

23) Family number: 51981781 (US2012245492A)

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Title: **REHABILITATION** DEVICE FOR PEOPLE WITH PARALYSIS AND OPERATION METHOD THEREOF

Abstract: A **rehabilitation** device comprises a plurality of sensors configured to detect motion of at least one targeted area of a patient, a display unit to display an image, and a controlling unit configured to determine a motion characteristic of the patient based on output signals from the plurality of sensors, and to control a **virtual** image representing a human body displayed on the display unit based on the determined motion characteristic. The plurality of sensors of the present invention are engaged with the at least one targeted area.

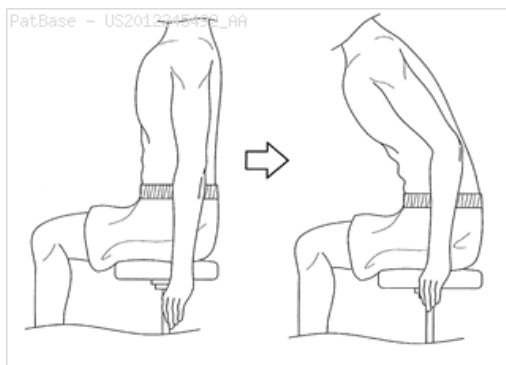
Classifications:

International (IPC 8-9): A61B5/103 (Advanced/Invention)

CPC: A61B5/1114 A61B5/6822 A61B5/6823 A61B5/6824

A61B5/6826 A61B5/6829 A61B2562/06

US: 600/595



Family:

Publication number	Publication date	Application number	Application date
US2012245492 AA	20120927	US20120354301	20120119

Priority:

KR20110025442 20110322

Probable Assignee: ACADEMIC COOPERATION FOUNDATION KYUNGPOOK NAT UNIV IND

Assignee(s): (std): ACADEMIC COOPERATION FOUNDATION KYUNGPOOK NAT UNIV IND ; INDUSTRY ACADEMIC COOPERATION FOUNDATION KYUNGPOOK NAT UNIVERSITY ; LEE YANG SOO

Assignee(s): INDUSTRY ACADEMIC COOPERATION FOUNDATION KYUNGPOOK NATIONAL UNIVERSITY ; ACADEMIC COOPERATION FOUNDATION KYUNGPOOK NATIONAL ; ACADEMIC COOPERATION FOUNDATION KYUNGPOOK NATIONAL UNIV IND

Inventor(s): (std): LEE YANG SOO

24) Family number: 55522803 (US2016262687A)

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Title: BIOMECHANICAL ACTIVITY MONITORING

Abstract: A wearable sensor apparatus comprises a motion sensor configured to sense two or three dimensional movement and orientation of the sensor and a vibration sensor configured to sense acoustic vibrations. The apparatus includes means for attaching the motion sensor and the vibration sensor to a body. The sensor apparatus enables long term monitoring of mechanomyographic muscle activity in combination with body motion for a number of applications.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/024

A61B5/08 A61B5/11 A61B7/00 A61B7/02 (Advanced/Invention);

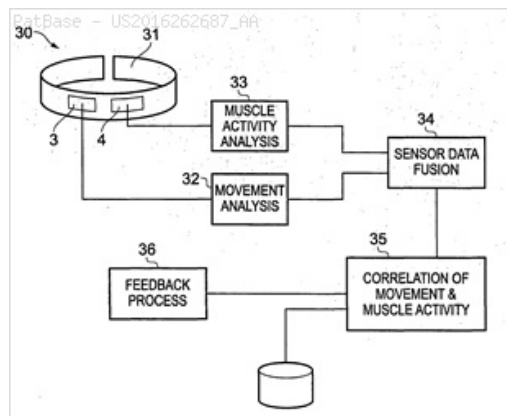
A61B5/024 A61B5/08 A61B7/02 (Advanced/Non-invention)

CPC: A61B5/02411 A61B5/02444 A61B5/0816 A61B5/1123

A61B5/1126 A61B5/6802 A61B2503/02 A61B5/4519 A61B5/11

A61B5/72 A61B5/1121 A61B7/006 A61B5/7246 A61B5/0205

A61B2562/0219 A61B2562/0204 A61B2562/0223 A61B2562/0247
A61B2560/0475 A61B2503/10 A61B2562/164 A61B2503/12
A61B5/1107 A61B5/1116 A61B5/4362 A61B5/4851 A61B5/7264
A61B2505/09 A61B2560/0257
US: 600/586



Family:

Publication number	Publication date	Application number	Application date
CN106061369 A	20161026	CN201480070109	20141104
EP3065628 A1	20160914	EP20140809950	20141104
GB201319434 A0	20131218	GB20130019434	20131104
GB2519987 A1	20150513	GB20130019434	20131104
IN201617015429 A	20160831	IN201617015429	20160503
US2016262687 AA	20160915	US20140034165	20141104
WO15063520 A1	20150507	WO2014GB53276	20141104

Priority:

GB20130019434 20131104 WO2014GB53276 20141104

Probable Assignee: IMP INNOVATIONS LTD

Assignee(s): (std): IMP INNOVATIONS LTD

Inventor(s): (std): VAIDYANATHAN RAVI ; SHEFELBINE SANDRA ; WOODWARD RICHARD ; NOWLAN NIAMH

Inventor(s): RAVI VAIDYANATHAN ; RICHARD WOODWARD ; NIAMH NOWLAN ; SANDRA SHEFELBINE

Agent(s): POTTER CLARKSON LLP; CHARIG RAYMOND JULIAN

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: 47808869 (WO10140984A1)

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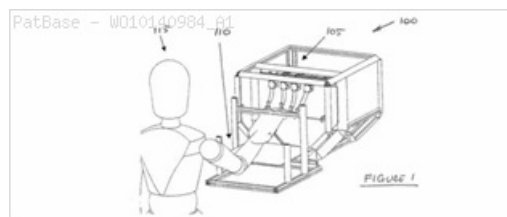
Title: FINGER FUNCTION **REHABILITATION** DEVICE

Abstract: A device for finger function **rehabilitation** comprising: fixations for engaging each finger; an actuator for selectively applying an active force to said fixations, and; a force transfer assembly connecting each of said fixations to the actuator.

Classifications:

International (IPC 8-9): A61H1/02 A63B23/16 (Advanced/Invention)
CPC: A61H1/0288 A61H2201/5061 A61H2201/5064 A61H2201/5069
A63B21/00178 A63B21/0023 A63B21/0058 A63B21/026 A63B21/157
A63B23/16 A63B71/0622 A63B2071/0072 A63B2071/0081
A63B2071/0627 A63B2071/0655 A63B2220/20 A63B2220/24
A63B2220/51

European: A61H1/02M5F A63B21/002B A63B21/00P A63B21/15G
A63B23/16 A63B71/06D2 K61H201/50S2 K61H201/50S4
K61H201/50S6 K63B21/005F K63B21/02D K63B220/20 K63B220/24
K63B220/51 K63B71/00P4 K63B71/00P6 K63B71/06D2A2
K63B71/06D5



Family:

Publication number	Publication date	Application number	Application date
WO10140984 A1	20101209	WO2010SG00209	20100603

Priority:

US20090217690P 20090603

Probable Assignee: UNIV SINGAPORE

Assignee(s): (std): BURDET ETIENNE ; DOVAT LUDOVIC ; GASSERT ROGER ; LAMBERCY OLIVIER ; UNIV SINGAPORE ; TEO CHEE LEONG

Assignee(s): NATIONAL UNIV OF SINGAPORE ; NATIONAL UNIVERSITY OF SINGAPORE

Inventor(s): (std): BURDET ETIENNE ; DOVAT LUDOVIC ; GASSERT ROGER ; LAMBERCY OLIVIER ; TEO CHEE LEONG

Agent(s): ENGLISH MATTHEW

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 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

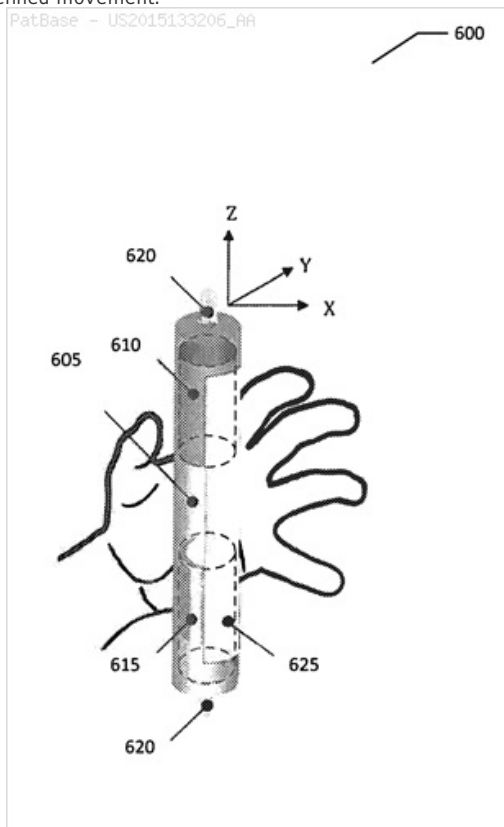
Title: METHOD AND APPARATUS FOR MOBILE **REHABILITATION** EXERGAMING

Abstract: An exercise gaming system includes a motion-detect device including a plurality of sensors configured to monitor movement of the motion-detect device during a user motion, and a first processor configured to receive input data from the plurality of sensors and provide information related to the data for transmission via a first wireless communication interface. The exercise gaming system further includes a computing device including a second wireless communication interface configured to receive information transmitted from the motion-detect device, a second processor configured to compare the received information to data stored in a memory and identify the user motion as a predefined movement, and a display configured to visually provide feedback related to the identified predefined movement.

Classifications:

International (IPC 8-9): A61F13/12 A63F13/00 A63F13/06
A63F13/211 A63F13/212 A63F13/67 G06N99/00 (Advanced/Invention)
CPC: A63F13/211 A63F13/212 A63F13/428 A63F13/235 A63F13/57
A63F13/67 A63F2300/403 A63F2300/105 A63F2300/6027 G06N20/00
US: 463/7

PatBase - US2015133206_AA



Family:

Publication number	Publication date	Application number	Application date
US2015133206 AA	20150514	US20130397797	20130308
WO13165557 A1	20131107	WO2013US30045	20130308

Priority:

US20120640643P 20120430 US20130397797 20130308 WO2013US30045 20130308

Probable Assignee: UNIV CALIFORNIA

Assignee(s): (std): UNIV CALIFORNIA

Assignee(s): THE UNIV OF CALIFORNIA

Inventor(s): (std): SARRAFZADEH MAJID ; LEE SUNGHOON IVAN ; MORTAZAVI JACK BOBAK

Agent(s): LIU CLIFF ET AL

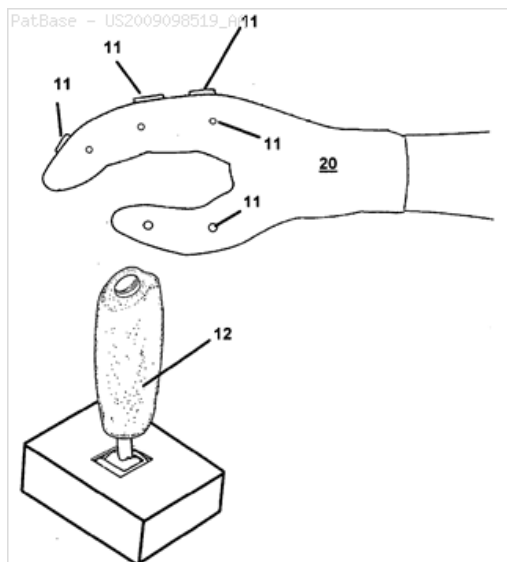
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Title: DEVICE AND METHOD FOR EMPLOYMENT OF VIDEO GAMES TO PROVIDE PHYSICAL AND OCCUPATIONAL THERAPY AND MEASURING AND MONITORING MOTOR MOVEMENTS AND COGNITIVE STIMULATION AND **REHABILITATION**

Abstract: A device and method for providing physical, occupational, or cognitive therapy to patients which employs video game software manipulated by a game controller and running on a central processing unit such as a computer or video game console. The device and method take advantage of the wide familiarity of patients with the manipulation of game controllers to operate widely sold and popular video games to provide immediate familiarity with the system operation. An interface and software are employed along with body engageable movement tracking components to change the required controller manipulations by the user in the game, to elicit movements predetermined to provide the therapy for the user.

Classifications:

International (IPC 8-9): G09B19/00 (Advanced/Invention);
G09B19/00 (Core/Invention)
CPC: G09B23/28 G09B19/003
European: G09B23/28
US: 434/247 434/247P 463/7 463/7S



Family:

Publication number	Publication date	Application number	Application date
US2009098519 AA	20090416	US20080287522	20081010
US2014302471 AA	20141009	US20140181082	20140214
US10002545 BB	20180619	US20140181082	20140214

Priority:

US20070998303P 20071010 US20080287522 20081010 US20130809035P 20130405
US20140181082 20140214

Probable Assignee: HANNERS JENNIFER ROBIN

Assignee(s): (std): BYERLY JENNIFER ; HANNERS JENNIFER ROBIN

Inventor(s): (std): BYERLY JENNIFER ; HANNERS JENNIFER ROBIN

Agent(s): DONN K HARMS PATENT AND TRADEMARK LAW CENTER; ROMAN; SARAH HEGI

28) Family number: 54123949 (US2014371633A)

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Title: METHOD AND SYSTEM FOR EVALUATING A PATIENT DURING A **REHABILITATION** EXERCISE

Abstract: A method for evaluating a user during a **virtual**-reality **rehabilitation** exercise, comprising: receiving a target sequence of movements comprising at least a first target elementary movement and a second target elementary movement; receiving a measurement of a movement executed by the user while performing the **rehabilitation** exercise and interacting with a **virtual**-reality simulation comprising at least a **virtual** user-controlled object, a characteristic of the **virtual** user-controlled object being controlled by the movement; determining, from the measurement of the movement executed by the user, a sequence of measured movements comprising at least a first measured elementary movement and a second measured elementary movement; comparing the sequence of measured movements to the sequence of target movements; and outputting an evaluation.

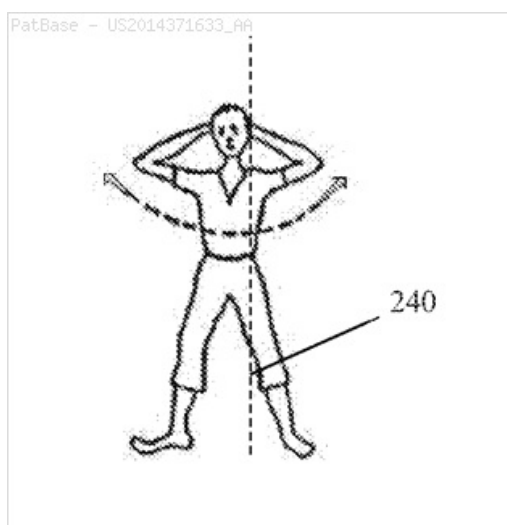
Classifications:

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

G09B19/00 (Advanced/Invention)

CPC: G09B5/06 A61B5/1128 A61B5/1102 A61B5/16 G09B19/003

US: 600/595



Family:

Publication number	Publication date	Application number	Application date
US2014371633 AA	20141218	US20120364351	20121213
WO13090554 A1	20130620	WO2012US69482	20121213

Priority:

US20110576092P 20111215 US20120364351 20121213 WO2012US69482 20121213

Probable Assignee: JINTRONIX INC

Assignee(s): (std): JINTRONIX INC

Inventor(s): (std): AVITAL OFER ALLAN ; BAE SUNG JUN ; EVIN MARK ; TAN JUSTIN ; YOUSSEF ALEXIS
Agent(s): FULLER JORI R
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

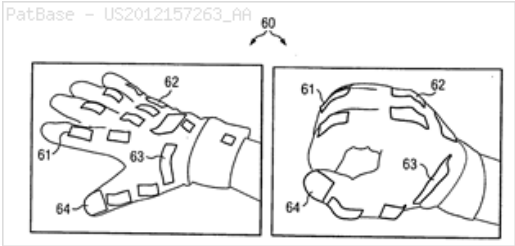
29) Family number: 46403999 (US2012157263A) © PatBase

Title: MULTI-USER SMARTGLOVE FOR **VIRTUAL** ENVIRONMENT-BASED **REHABILITATION**

Abstract: A low-cost, **virtual** environment, **rehabilitation** system and a glove input device for patients suffering from stroke or other neurological impairments for independent, in-home use, to improve upper extremity motor function, including hand and finger control. The system includes a low-cost input device for tracking arm, hand, and finger movement; an open source gaming engine; and a processing device. The system is controllable to provide four types of multiple patient/user interactions: competition, cooperation, counter-operative, and mixed.

Classifications:

International (IPC 8-9): A61H1/00 A61H1/02 A63B24/00 G06F3/01 (Advanced/Invention); A61B5/00 A63B24/00 G06F19/00 (Advanced/Non-invention); A61H1/00 (Core/Invention)
CPC: A61B5/0022 A61B5/1114 A61B5/6806 A61B5/7475 A61B2505/09 A63B2225/20 A63F2300/1012 A63F2300/105 G06F3/014 A63B23/08 A63B23/16 A63B2022/0094 A63B2024/0096 A63B2071/0638 A63B2071/0655 A63B2220/10 A63B2220/16 A63B2220/40 A63B2220/51 A63B2220/805 A63B2220/89 A63B2225/50 A63B2225/54 G06F3/011 G09B19/003 G06F19/3481 A63F13/212 G16H40/63
European: A61H1/02M5 G06F3/01B6 K61H201/50S
US: 482/4 482/4P



Family:

Publication number	Publication date	Application number	Application date
EP2389152 A1	20111130	EP20100733800	20100120
EP2389152 A4	20160511	EP20100733800	20100120
US2012157263 AA	20120621	US20100145436	20100120
WO10085476 A1	20100729	WO2010US21483	20100120

Priority:

US20090145825P 20090120 US20090266543P 20091204 WO2010US21483 20100120
US20100145436 20100120

Probable Assignee: NORTHEASTERN UNIV

Assignee(s): (std): BAJPAI AVI ; BINTZ CAITLYN ; CHRISOS JASON ; CLARK ANDREW ; HOLDEN MAUREEN K ; SIVAK MARK ; UNIV NORTHEASTERN ; LENTZ DREW ; MAVROIDIS CONSTANTINOS

Assignee(s): NORTHEASTERN UNIV ; NORTHEASTERN UNIVERSITY

Inventor(s): (std): CHRISOS JASON ; BINTZ CAITLYN ; HOLDEN MAUREEN K ; SIVAK MARK ; CLARK ANDREW ; BAJPAI AVI ; LENTZ DREW ; MAVROIDIS CONSTANTINOS

Agent(s): PFISTER STEFAN HELMUT ULRICH; HARTNELL GEORGE W III ET AL

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