

1) Family number: 52602210 (US2012330869A)

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Title: MENTAL MODEL ELICITATION DEVICE (MMED) METHODS AND APPARATUS

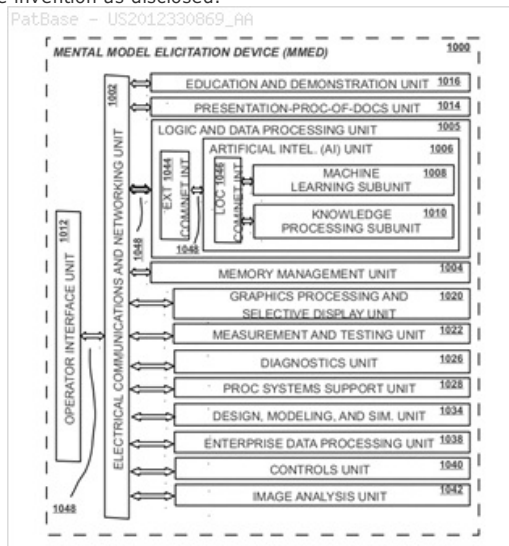
Abstract: A mental-model elicitation process and apparatus, called the Mental-Model Elicitation Device (MMED) is described. The MMED is used to give rise to more effective end-user mental-modeling activities that require executive function and working memory functionality. The method and apparatus is visual analysis based, allowing visual and other sensory representations to be given to thoughts, attitudes, and interpretations of a user about a given visualization of a mental-model, or aggregations of such visualizations and their respective blending. Other configurations of the apparatus and steps of the process may be created without departing from the spirit of the invention as disclosed.

Classifications:

International (IPC 8-9): G06N3/02 (Advanced/Invention)

CPC: G06N5/022

US: 706/16



Family:

Publication number	Publication date	Application number	Application date
US2012330869 AA	20121227	US20120487249	20120603

Priority:

US20110501202P 20110625 US20120487249 20120603

Probable Assignee: DURHAM JAYSON THEORDORE

Assignee(s): (std): DURHAM JAYSON THEORDORE

Inventor(s): (std): DURHAM JAYSON THEORDORE

2) Family number: 62922873 (WO16110804A1)

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Title: MOBILE WEARABLE MONITORING SYSTEMS

Abstract: This document describes a number of inventions comprising of one or more wearable devices (i.e. attached or applied to limbs, body, head or other body extremities but also applicable to implanted or physiologically attachable systems). These systems have a means of enabling diagnostic or prognostic monitoring applicable to monitoring relevant parameters and corresponding analysis determination and characterisation applicable to the onset or detection of events or health conditions of interest. One application relates to sleep monitoring and associate EEG sensors.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/024
A61B5/04 A61B5/0408 A61B5/0476 A61B5/0478 A61B5/0488
A61B5/0496 A61B5/08 A61B5/11 A61B5/1455
A61B5/16 (Advanced/Invention)

CPC: A61B5/4815 A61B5/0002 A61B5/0205 A61B5/024 A61B5/0476
A61B5/0478 A61B5/0488 A61B5/0496 A61B5/11 A61B5/1123
A61B5/14551 A61B5/4806 A61B5/6814 A61B5/6824 G16H40/63
G16H40/67

Title: Somnit FIGURES

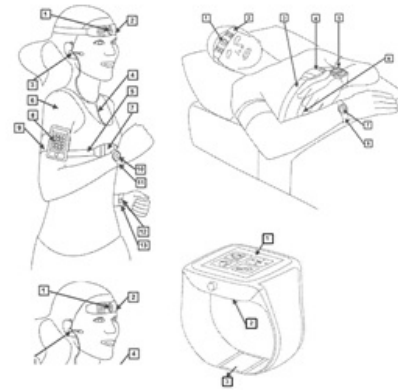


Figure 1 LEFT TOP: figure presents example of a subject/patient wearable neuro-sleep/fitness/health management systems comprising applied forehead sensor (Somnit) using headband attachment (2), eLifeBAND (arm phone/entertainment device holder) (9), eLifeWATCH (13), RIGHT-TOP: sleeping subject with eLifeCHEST (3), eLifeWATCH (5), eLifeWRIST (11) and Somnit (1) devices LOWER RIGHT: eLifeWATCH with sensor monitoring platform. LEFT LOWER: forehead applied sensor incorporating self-adhesive attachment without requirement of head band attachment.

Family:

Publication number	Publication date	Application number	Application date
AU2016205850 AA	20170727	AU20160205850	20160106
AU2016205850 BB	20181004	AU20160205850	20160106
AU2018250529 AA	20181115	AU20180250529	20181022
AU2018250529 BB	20200430	AU20180250529	20181022
CA2968645 AA	20170523	CA20162968645	20160106
CN107438398 A	20171205	CN201680015981	20160106
EP3242587 A1	20171115	EP20160701198	20160106
IN201717023353 A	20170922	IN201717023353	20170703
JP2018505759 T2	20180301	JP20170553469T	20160106
KR20170129689 A	20171127	KR20177021883	20160106
WO16110804 A1	20160714	WO20161B50042	20160106

Priority:

AU20150900015 20150106 AU20160205850 20160106 WO20161B50042 20160106
 AU20180250529 20181022

Probable Assignee: BURTON DAVID**Assignee(s):** (std): BURTON DAVID**Inventor(s):** (std): BURTON DAVID**Agent(s):** COMPUMEDICS LTD; HUBICK KERRY DR; MLT AIKINS LLP; HANDSOME IP LTD

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

3) Family number: 62004930 (US2017216595A)

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Title: BRAIN STIMULATION TOOL CONFIGURATION

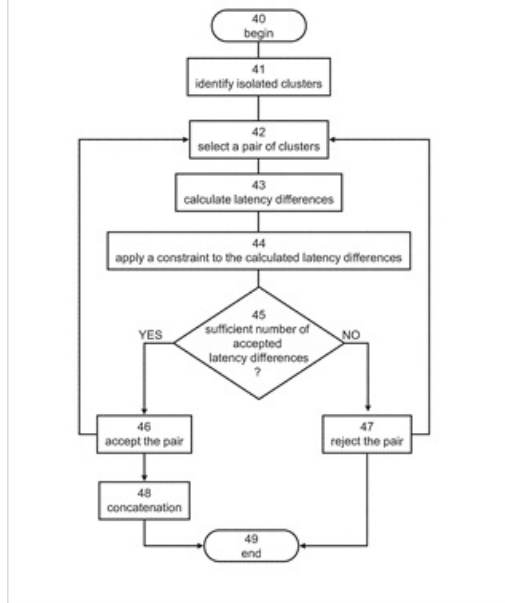
Abstract: A method of configuring a local brain stimulation tool is disclosed. The method comprises: obtaining a reference brain network activity (BNA) pattern, and a BNA pattern describing a neurophysiological state of the subject, each of the BNA patterns having a plurality of nodes and each node representing a brain location and at least one brain wave frequency. The method further comprises comparing the BNA patterns; and configuring the local brain stimulation tool to apply local brain stimulation at a frequency selected based on the comparison.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/048 A61B5/0484 A61N A61N1/05 A61N1/20 A61N1/36 A61N2/00 A61N5/06 A61N7/00 (Advanced/Invention); A61N (Subclass/Invention)

CPC: A61B5/048 A61B5/0484 A61B5/4064 A61B5/4836 A61N1/36025 A61N1/36139 A61N1/0534 A61N1/20 A61N2/006 A61N5/0622 A61N7/00 A61N2005/0626 A61N2005/067 A61N2007/0026

US: 1/1 600/9

**Family:**

Publication number	Publication date	Application number	Application date
CA2961451 AA	20170315	CA20152961451	20150924
DE602015041363 D1	20191128	DE201560041363T	20150924
EP3197350 A2	20170802	EP20150843981	20150924
EP3197350 A4	20180711	EP20150843981	20150924
EP3197350 B1	20191106	EP20150843981	20150924
IL251423 A0	20170529	IL20150251423	20150924
US2017216595 AA	20170803	US20150514550	20150924
WO16046830 A2	20160331	WO20151L50972	20150924
WO16046830 A3	20160818	WO20151L50972	20150924

Priority:

US20140056556P 20140928 EP20150843981 20150924 WO20151L50972 20150924
 US20150514550 20150924

Probable Assignee: ELMINDA LTD

Assignee(s): (std): AMIR B GEVA ; AMIT RECHES ; ELMINDA LTD ; YAKI STERN ; ZIV PEREMEN

Assignee(s): GEVA AMIR B ; PEREMEN ZIV ; RECHES AMIT ; STERN YAKI

Inventor(s): (std): AMIR B GEVA ; AMIT RECHES ; GEVA AMIR B ; PEREMEN ZIV ; RECHES AMIT ; STERN YAKI ; YAKI STERN ; ZIV PEREMEN

Agent(s): INTEGRAL IP; KRAMER DANI; EHRLICH GAL ET AL

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

1) Family number: 48465015 (US2011063571A)

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Title: METHOD AND SYSTEM FOR QUANTITATIVE ASSESSMENT OF VISUAL CONTRAST SENSITIVITY

Abstract: A method is presented to address quantitative assessment of visual contrast sensitivity in a subject, where the method comprises the steps of: (1) presenting at least one scene to the subject on a display, the scene comprising a plurality of elements and a background; (2) modulating the contrast of at least one element; (3) receiving feedback from the subject via at least one input device; (4) quantitatively refining the received feedback relative to the scene; (5) adjusting the contrast relative to accuracy of the quantitatively refined feedback; (6) calculating a critical threshold parameter for the subject; and (7) recording a critical threshold parameter onto a tangible computer readable medium. An apparatus for quantitative assessment of visual contrast sensitivity of a subject comprising a display device, an input device, a control device, and a tangible computer readable medium. In its simplest sense, quantitative assessment profile of visual contrast sensitivity by psychophysical responses is generated on a tangible computer readable medium.

Classifications:

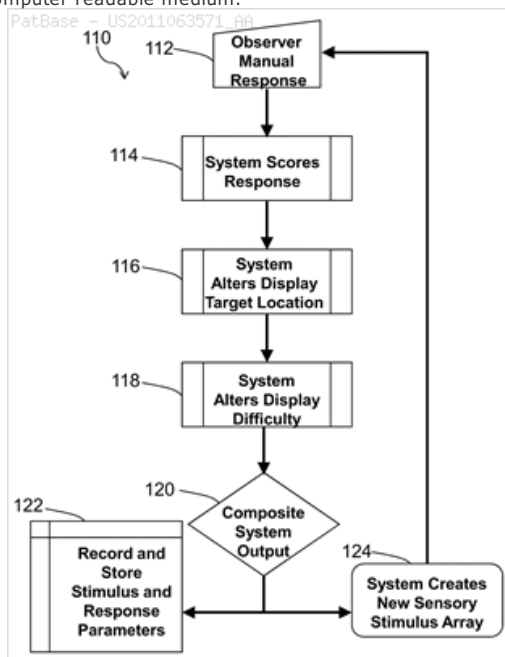
International (IPC 8-9): A61B3/00 A61B3/02

A61B3/06 (Advanced/Invention)

CPC: A61B3/06 A61B3/022 A61B3/032 A61B5/4064 A61B5/4088

European: A61B3/02B A61B3/032 A61B3/06

US: 351/239 351/239P 351/242 351/246 351/246S



Family:

Publication number	Publication date	Application number	Application date
US2011063571 AA	20110317	US20090560642	20090916
US8454165 BB	20130604	US20090560642	20090916

Priority:

US20090560642 20090916

Probable Assignee: COGNIVUE INC

Assignee(s): (std): CEREBRAL ASSESSMENT SYSTEMS INC ; DUFFY CHARLES J

Assignee(s): COGNIVUE INC

Inventor(s): (std): DUFFY CHARLES J

Agent(s): HULSEY P C; WILLIAM N; LOREN T; HULSEY PC

2) Family number: 64289023 (US2018168499A)

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Title: DIAGNOSIS OF MILD TRAUMATIC BRAIN INJURY

Abstract: A stimulus is displayed in a visual field on a stimulus side (e.g., right or left) of a subject. An input is received from an input side of the subject. Where the input side is contralateral to the first stimulus side, a crossed reaction time is determined as a span of time between displaying the stimulus and receiving the input. Where the input side is ipsilateral to the stimulus side, an uncrossed reaction time is determined as a span of time between displaying the stimulus and receiving the input. A crossed-uncrossed difference time can be determined as a difference between the crossed reaction time and the uncrossed reaction time. The crossed reaction time, the uncrossed reaction time, and/or the crossed-uncrossed difference time can be used to determine a severity of Traumatic Brain Injury of the subject.

Classifications:

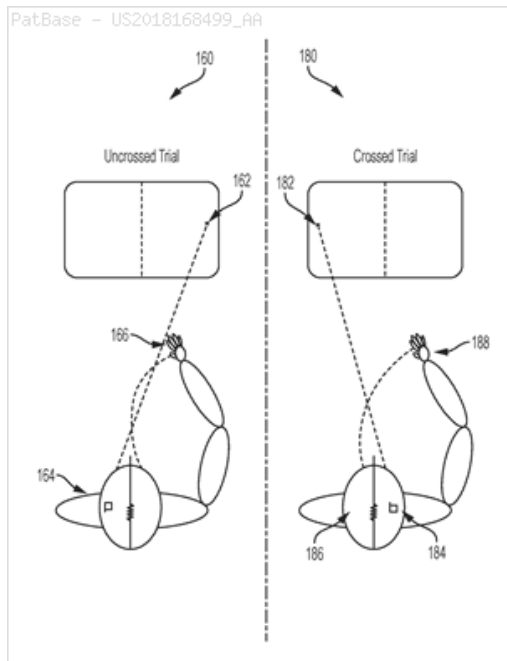
International (IPC 8-9): A61B5/00 A61B5/05 A61B5/11 A61B5/16

G09B1/00 G09B5/00 (Advanced/Invention);

A61B5/055 (Advanced/Non-invention)

CPC: A61B5/055 A61B5/162 A61B5/163 A61B5/4064 A61B2505/09

US: 1/1 514/789



Family:

Publication number	Publication date	Application number	Application date
EP3302249 A1	20180411	EP20160804584	20160603
EP3302249 A4	20190116	EP20160804584	20160603
US2018168499 AA	20180621	US20160579559	20160603
WO16197029 A1	20161208	WO2016US35871	20160603

Priority:

US20150171198P 20150604 US20160579559 20160603 WO2016US35871 20160603

Probable Assignee: UNIV NEW YORK STATE RES FOUND

Assignee(s): (std): BERGOLD PETER JOHN ; LYTTON WILLIAM WINZER ; RES FOUND FOR STATE UNIV OF NEW YORK ; RESEARCH FOUNDATION FOR STATE UNIV OF NEW YORK ; RESEARCH FOUNDATION OF STATE UNIV OF NEW YORK ; SKOLNICK JOSHUA MICHAEL ; UNIV NEW YORK STATE RES FOUND

Assignee(s): RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK

Inventor(s): (std): SKOLNICK JOSHUA MICHAEL ; LYTTON WILLIAM WINZER ; BERGOLD PETER JOHN

Agent(s): VIERING JENTSCHURA AND PARTNER MBB PATENT U RECHTSANWALTE; HILL JAMES W 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

3) Family number: 48466024 (US2011066071A)

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Title: METHOD AND SYSTEM FOR QUANTITATIVE ASSESSMENT OF SPATIAL DISTRACTOR TASKS

Abstract: A method is presented to address quantitative assessment of spatial distractor tasks in a subject, where the method comprises the steps of: (1) presenting at least one scene to a subject on a display, said scene comprising a plurality of elements and a background; (2) modulating the saliency of a predetermined section of the scene; (3) receiving feedback from the subject; (4) superimposing an additional cue onto the scene; (5) generating a shift in attention of the subject; (6) receiving refined feedback from the subject; (7) quantitatively refining the refined feedback; (8) adjusting the motion associated with the scene relative to accuracy of the refined feedback; and (9) calculating a critical threshold parameter for the subject; and (10) recording the critical threshold parameter onto a tangible computer readable medium. An apparatus for quantitative assessment of spatial distractor tasks of a subject comprising a display device, an input device, a control device, and a tangible computer readable medium. In its simplest sense, quantitative assessment profile of spatial distractor tasks by psychophysical responses is generated on a tangible computer readable medium.

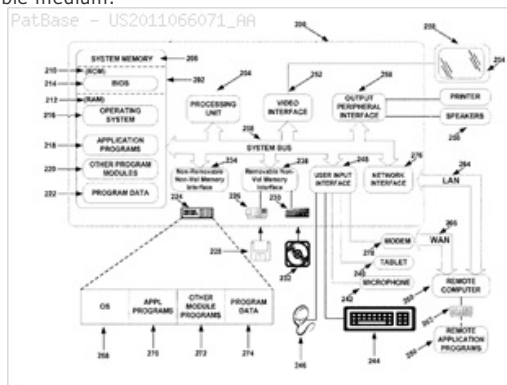
Classifications:

International (IPC 8-9): A61B5/00 G09B1/00 G09B1/16 G09B7/00 (Advanced/Invention)

CPC: A61B5/168 A61B5/411 A61B5/486 A61B5/4064 A61B5/4076 A61B5/4082 A61B5/16 A61B5/165

European: A61B5/16 A61B5/41B A61B5/48S

US: 351/239 351/246 434/136 434/167 434/227 434/236 600/558 600/558P



Family:

Publication number	Publication date	Application number	Application date
US2011066071 AA	20110317	US20090560916	20090916
US8475391 BB	20130702	US20090560916	20090916

Priority:

US20090560916 20090916

Probable Assignee: COGNIVUE INC

Assignee(s): (std): CEREBRAL ASSESSMENT SYSTEMS ; DUFFY CHARLES J

Assignee(s): CEREBRAL ASSESSMENT SYSTEMS INC ; COGNIVUE INC

Inventor(s): (std): DUFFY CHARLES J

Agent(s): HULSEY P C; WILLIAM N; LOREN T; HULSEY PC

4) Family number: 43385033 (US2009156907A)

PatBase

Title: METHODS AND SYSTEMS FOR SPECIFYING AN AVATAR

Abstract: Avatars, methods, apparatuses, computer program products, devices and systems are described that carry out presenting at least one characteristic to at least one member of a population cohort; measuring at least one physiologic activity of the at least one member of the population cohort, the at least one physiologic activity proximate to the at least one presented characteristic; associating the at least one physiological activity with at least one mental state; and specifying at least one avatar attribute based on the at least one mental state.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/04 A61B5/0476 A61B5/0484 A61B5/05 A61B5/1455 A61B5/16 A61B6/00 A61M21/00 A63F13/40 A63F9/24 G01N33/00 G06F15/00 G06F15/16 G06F15/18 G06F17/00 G06F17/20 G06F17/30 G06F17/40 G06F19/00 G06F19/26 G06F40/00 G06F7/06 G06F7/10 G06F7/20 G06N5/00 G06N5/02 G06Q30/00 G06Q30/02 G06Q99/00 G09B19/00

G16B45/00 (Advanced/Invention);

A61B3/113 A61B5/00 A61B5/04 A61B5/053 A61B5/055

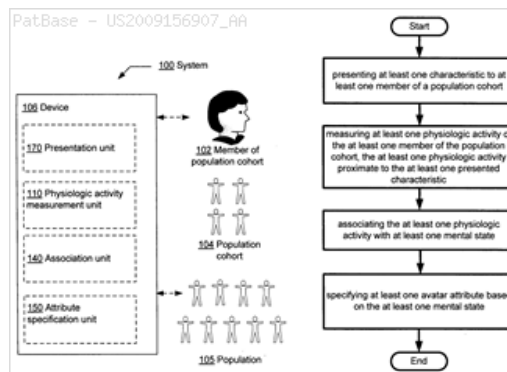
A61B5/1455 (Advanced/Non-invention);

A61B5/00 A61B5/04 A61B5/05 A61M21/00 A63F9/24 G01N33/00 G06F15/16 G06F17/30 G06F17/40 G06F7/06 G06N5/00 G06Q30/00 G06Q99/00 G09B19/00 (Core/Invention)

CPC: G06Q30/06 G06Q30/00 G06N20/00 A61B5/165 A63F13/79 A63F13/10 A61B5/163 A61B5/167 A61B5/4064 A61B5/744 G06Q30/0601 G16B45/00 G06Q30/0204 G16H30/20 G16H40/63 A61B3/113 A61B5/04008 A61B5/0476 A61B5/0533 A61B5/055 A61B5/14553 A61B5/726 A61B6/501 A61B6/56 A61B2560/0214 A63F13/822 A63F2300/5553 G06Q30/02 A61B5/04009 A61B5/04842 A61B5/145 A61B5/1455 A61B5/16 A61B5/441 G06N5/02 G06Q10/10 A61B2503/12 G06Q10/0637 G06Q50/01

European: A61B5/0476 A61B5/0484B A61B5/053B4 A61B5/1455N4 A61B5/16 A61B5/16H A61B6/50B A61B6/56 A63F13/10 G06N5/02 G06N99/00L G06Q10/0637 G06Q10/10 G06Q30/00 G06Q30/02 G06Q30/0204 G06Q30/06 G06Q30/0601 G06Q50/01 G06Q50/22 K61B3/113 K61B5/0476 K61B5/04M4 K61B5/04M4B K61B5/053B4 K61B5/055 K61B5/145 K61B5/1455 K61B5/44B K61B5/72K10D K61B503/12 K61B560/02B4 K63F300/55P1

US: 1/1 1/P 434/236 434/236S 463/36 463/36S 600/27 600/27S 600/300 600/300P 600/301 600/301P 600/407 600/407S 600/544 600/544P 600/544S 702/19 702/19P 705/1 705/1.1 705/10 705/10P 705/10S 705/26 705/26.1 705/26.100S 705/26S 705/319 705/319S 705/7 705/7.33 705/7.33P 705/7.36 705/7.36S 705/7S 706/11 706/12 706/45 706/46 706/46P 706/62 707/104.1 707/3 707/5 707/999.003 707/999.003S 707/999.005 707/999.005S 707/999.104 707/999.104S 707/999.107 707/999.107S 707/E17.009 707/E17.009S 707/E17.014 707/E17.014S 707/E17.044 707/E17.044S 707/E17.108 707/E17.108S 707/E17.14 707/E17.140S 709/204 709/204P 709/205 709/205P



Family:

Publication number	Publication date	Application number	Application date
US2009156907 AA	20090618	US20080157929	20080612
US2009156955 AA	20090618	US20080214788	20080619
US2009157323 AA	20090618	US20070006239	20071231
US2009157481 AA	20090618	US20080215192	20080624
US2009157482 AA	20090618	US20080217288	20080701
US2009157625 AA	20090618	US20080214539	20080618
US2009157660 AA	20090618	US20080215042	20080623
US2009157751 AA	20090618	US20070002289	20071213
US2009157813 AA	20090618	US20070002778	20071217
US2009163777 AA	20090625	US20070005115	20071220
US2009164132 AA	20090625	US20070006235	20071231
US2009164302 AA	20090625	US20070005063	20071220
US2009164403 AA	20090625	US20070005046	20071220
US2009164458 AA	20090625	US20070005114	20071220
US2009171164 AA	20090702	US20070006234	20071231
US2012316793 AA	20121213	US20120439733	20120404
US2013085678 AA	20130404	US20120442627	20120409
US8069125 BB	20111129	US20070005115	20071220
US8195593 BB	20120605	US20070005046	20071220
US8356004 BB	20130115	US20070006235	20071231
US8615479 BB	20131224	US20080217288	20080701
US9211077 BB	20151215	US20080157929	20080612
US9495684 BB	20161115	US20120439733	20120404

Priority:

US20070002289 20071213 US20070002778 20071217 US20070005046 20071220
US20070005063 20071220 US20070005114 20071220 US20070005115 20071220
US20070006235 20071231 US20070006234 20071231 US20070006239 20071231
US20080157929 20080612 US20080214539 20080618 US20080214788 20080619
US20080215042 20080623 US20080215192 20080624 US20080217288 20080701
US20120439733 20120404 US20120442627 20120409

Probable Assignee: INVENTION SCIENCE FUND I LLC

Assignee(s): (std): INV SCIENCE FUND I ; INVENTION SCIENCE FUND I LLC ; JUNG EDWARD K Y ; LEUTHARDT ERIC C ; LEVIEN ROYCE A ; LORD ROBERT W ; MALAMUD MARK A ; RINALDO JR JOHN D ; WOOD JR LOWELL L ; WOOD JR LOWELL I ; SEARETE LLC ; INVENT SCIENCE FUND I LLC

Assignee(s): INVENTION SCIENCE FUND I ; SEARETE LLC A LIABILITY OF STATE OF DELAWARE CORP LTD ; JUNG EDWARD KY

Inventor(s): (std): WOOD JR LOWELL L ; WOOD JR LOWELL I ; RINALDO JR JOHN D ; MALAMUD MARK A ; LORD ROBERT W ; LEVIEN ROYCE A ; LEUTHARDT ERIC C ; JUNG EDWARD K Y

Inventor(s): JUNG EDWARD KY

Agent(s): SEARETE LLC CLARENCE T TEGREENE; SEARETE LLC; KELLER LAPUMA WOODARD PC; GERALD M; SUITER SWANTZ PC LLO

5) Family number: 71972045 (US2018336973A)

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Title: SYSTEM, METHOD AND APPARATUS FOR TREATMENT OF NEGLECT

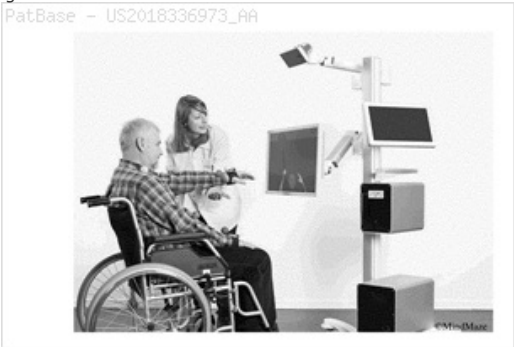
Abstract: A system, method and apparatus for assessment and optional treatment of spatial attention deficit, such as neglect for example, with computational feedback, based upon tracking the movement of the user.

Classifications:

International (IPC 8-9): G06F3/01 G06T19/00 G16H20/30 G16H80/00 (Advanced/Invention)

CPC: A61B5/0006 A61B5/0077 A61B5/11 A61B5/1127 A61B5/4064 A61B5/7267 G06F3/011 G06F3/014 G06F3/015 G06T19/006 G16H20/30 G16H30/40 G16H40/63 G16H50/20 A61B5/0022 A61B5/1116 G06T19/003 G08B21/0415 G16H80/00

US: 1/1 702/19



Family:

Publication number	Publication date	Application number	Application date
US2018336973 AA	20181122	US20180984599	20180521

Priority:

US20170508521P 20170519 US20180984599 20180521

Probable Assignee: MINDMAZE HOLDIING SA

Assignee(s): (std): MINDMAZE HOLDIING SA

Inventor(s): (std): GIROUX ARTHUR ; BLANKE OLAF ; RONCHI ROBERTA ; MARCOS DANIEL PEREZ ; TADI TEJ

6) Family number: 64904154 (US2017042462A)

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Title: AUTOMATED DATA ACQUISITION, APPRAISAL AND ANALYSIS IN NONINVASIVE RAPID SCREENING OF NEURO-OTOLOGIC CONDITIONS USING COMBINATION OF SUBJECT'S OBJECTIVE OCULOMOTOR VESTIBULAR AND REACTION TIME ANALYTIC VARIABLES

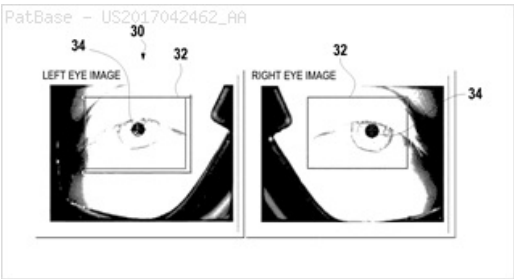
Abstract: Ann automated data acquisition, appraisal and analysis in noninvasive rapid screening of neuro-otologic condition using combination of subject's objective oculomotor, vestibular and reaction time analytic variables, comprises the steps of: establishing an OVRT testing protocol for specific neuro-otologic condition which protocol included eye tracking aspects; coupling an eye tracker is coupled to subject; automatically establishing a region of interest for the eye tracker centered on the subject's pupils; conducting the OVRT testing protocol using pre-programmed/automated voice instructions to the subject; confirming that each test is performed within preset parameters including automated eye image evaluation and advising the clinician of testing which is outside of present parameters; and displaying a normalized composite test protocol score (0-1) on graphical progressive background.

Classifications:

International (IPC 8-9): A61B3/00 A61B3/113 A61B5/00 A61B5/12 A61B5/16 (Advanced/Invention)

CPC: A61B5/12 A61B5/162 A61B5/163 A61B5/4064 A61B5/4076 A61B5/7282 A61B3/0025 A61B3/0041 A61B3/113

US: 1/1 600/558



Family:

Publication number	Publication date	Application number	Application date
US2017042462 AA	20170216	US20160233845	20160810
US2020113501 AA	20200416	US20190599556	20191011

Priority:

US20150203131P 20150810 US20160233845 20160810 US20190599556 20191011

Probable Assignee: NEURO KINETICS

Assignee(s): (std): NEURO KINETICS INC

Assignee(s): NEURO KINETICS

7) Family number: 42199171 (US2008242947A)

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Title: CONFIGURING SOFTWARE FOR EFFECTIVE HEALTH MONITORING OR THE LIKE

Abstract: A system, method, computer program product, and carrier are described for obtaining an indication of an activity status change of an application program and causing a movement of data distillation code relating to physiology-indicative data in response to the indication of the activity status change of the application program; or for obtaining (a) first clinical data acceptable to a clinical analysis module and (b) a pointer to the clinical analysis module, configuring one or more applications using the pointer to the clinical analysis module after receiving at least the first clinical data acceptable to the clinical analysis module, and using second clinical data acceptable to the clinical analysis module with at least one of the one or more applications configured using the pointer to the clinical analysis module after receiving at least the first clinical data acceptable to the clinical analysis module.

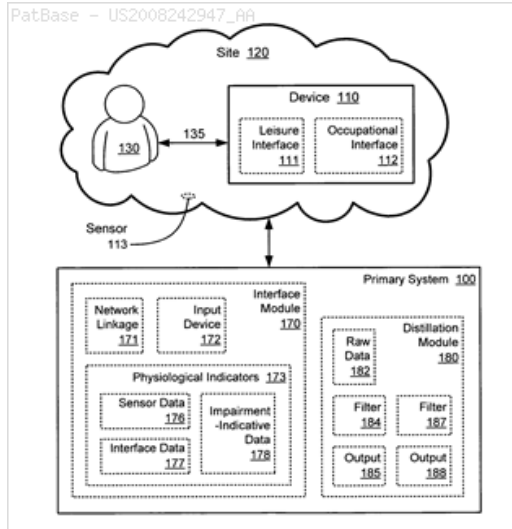
Classifications:

International (IPC 8-9): A61B5/00 A61B5/04 A61B5/0476 A61B5/11 A61B5/12 A61B5/16 A61B5/22 A61B8/00 G01N33/48 G06F19/00 G06Q10/00 G06Q50/00 G16H40/67 (Advanced/Invention); A61B5/00 A61B5/04 A61B5/0476 A61B5/11 A61B5/12 A61B5/22 A61B8/00 G01N33/48 G06F19/00 G06Q10/00 G06Q50/00 (Core/Invention)

CPC: G06Q10/10 A61B5/0059 A61B5/02055 A61B5/021 A61B5/024 A61B5/11 A61B5/12 A61B5/145 A61B5/441 A61B5/4803 A61B5/4863 A61B5/0013 A61B3/00 A61B5/1101 A61B5/1124 A61B5/121 A61B5/161 G06F19/321 G16H50/30 G16H40/63 A61B5/163 A61B5/16 A61B5/162 A61B5/4023 A61B5/4082 A61B5/4088 A61B5/4094 G16H40/67 A61B3/113 A61B5/0022 A61B5/055 A61B5/4064 A61B5/4076 G06Q50/24 G16H10/20 G16H10/60 G16H40/40 G16H50/20 G16H40/60 A61B5/0002 A61B5/411 G06F19/3418 G06F19/3456 G06F19/3481

European: A61B3/113 A61B5/00B A61B5/00P A61B5/0205B A61B5/055 A61B5/11B A61B5/11U A61B5/12D A61B5/16 A61B5/16B A61B5/16D A61B5/41B A61B5/48B G06F19/00M G06F19/34A G06F19/34A1 G06F19/34C G06F19/34K G06F19/36A G06Q10/10 G06Q50/22 G06Q50/24 K61B3/00 K61B3/113 K61B5/021 K61B5/024 K61B5/11 K61B5/11B K61B5/12 K61B5/145 K61B5/16 K61B5/44B K61B5/48U S06F19/32A S06F19/32C S06F19/34A1 S06F19/34C S06F19/34G S06F19/34L S06F19/34N

US: 600/300 600/300P 600/300S 600/301 600/301P 600/481 600/529 600/544 600/544P 600/558 600/558S 600/559 600/559S 600/595 600/595S 702/19 702/19S 703/5 703/5S 705/2 705/2P 705/2S 705/3 705/3S 715/700

**Family:**

Publication number	Publication date	Application number	Application date
EP1975828 A2	20081001	EP20080251178	20080328
GB200918569 A0	20091209	GB20090018569	20091022
GB200918582 A0	20091209	GB20090018582	20091022
GB200918583 A0	20091209	GB20090018583	20080328
GB2460804 A1	20091216	GB20090018582	20091022
GB2460991 A1	20091223	GB20090018583	20080328
GB2460991 A8	20100120	GB20090018583	20080328
GB2461453 A1	20100106	GB20090018569	20091022
US2008242947 AA	20081002	US20070731778	20070330
US2008242948 AA	20081002	US20070731801	20070330
US2008242949 AA	20081002	US20070804304	20070515
US2008242950 AA	20081002	US20070807220	20070524
US2008242951 AA	20081002	US20070807905	20070529
US2008242952 AA	20081002	US20070807918	20070529
US2008243005 AA	20081002	US20070811865	20070611
US2008243543 AA	20081002	US20070731745	20070330
US2008287821 AA	20081120	US20080151742	20080507
US2008319276 AA	20081225	US20080156663	20080602
US2009005653 AA	20090101	US20080156625	20080602
US2009005654 AA	20090101	US20080156783	20080603
US2009018407 AA	20090115	US20080154279	20080520
US2009024050 AA	20090122	US20080156433	20080529
US2019239789 AA	20190808	US20190283533	20190222
WO08121371 A2	20081009	WO2008US04142	20080328
WO08121371 A3	20081127	WO2008US04142	20080328
WO08121399 A2	20081009	WO2008US04185	20080328
WO08121399 A3	20081120	WO2008US04185	20080328
WO08121401 A2	20081009	WO2008US04187	20080328
WO08121401 A3	20081127	WO2008US04187	20080328
WO08143908 A2	20081127	WO2008US06197	20080514
WO08143908 A3	20090122	WO2008US06197	20080514
WO08143941 A1	20081127	WO2008US06245	20080514

Priority:

US20070731745	20070330	US20070731778	20070330	US20070731801	20070330
US20070804304	20070515	US20070807220	20070524	US20070807905	20070529
US20070807918	20070529	US20070811865	20070611	WO2008US04185	20080328
WO2008US04142	20080328	WO2008US04187	20080328	US20080151742	20080507
US20080154279	20080520	US20080156433	20080529	US20080156663	20080602
US20080156625	20080602	US20080156783	20080603	US20180905532	20180226
US20190283533	20190222				

Probable Assignee: GEARBOX LLC

Assignee(s): (std): JUNG EDWARD K Y ; LEUTHARDT ERIC C ; LEVIEN ROYCE A ; LORD ROBERT W ; MALAMUD MARK A ; SEARETE LLC ; SEARETE LLC A LTD CORP OF ; SEARETE LLC A LTD LIABLITY COR ; GEARBOX LLC

Assignee(s): JUNG EDWARD K ; SEARETE LLC A OF STATE OF DELAWARE CORP LTD ; SEARETE LLC A LIABILITY OF STATE OF DELAWARE CORP LTD ; JUNG EDWARD KY ; SEARETE LLC A LIABLITY OF STATE OF DELAWARE CORP LTD

Inventor(s): (std): JUNG EDWARD K ; JUNG EDWARD K Y ; LEUTHARDT ERIC C ; LEVIEN ROYCE A ; LORD ROBERT W ; MALAMUD MARK A

Inventor(s): MARK A MALAMUD ; ROBERT W LORD ; ROYCE A LEVIEN ; JUNG EDWARD KY ; EDWARD K Y JUNG ; ERIC C LEUTHARDT

Agent(s): HARRIS IAN RICHARD ET AL; SEARETE LLC CLARENCE T TEGREENE; SEARETE LLC; COOK DALE R; COOK DALE R ET AL

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

8) Family number: 57412180 (US2016022167A)

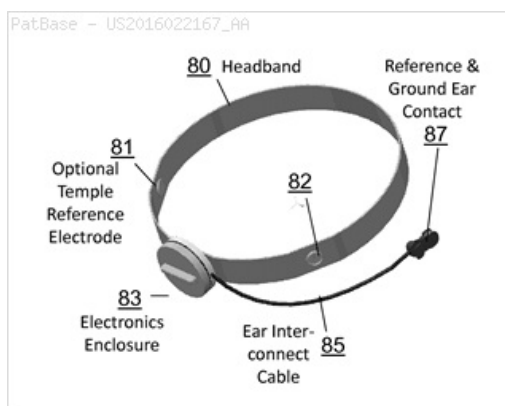
© PatBase

Title: SYSTEM AND SIGNATURES FOR THE MULTI-MODAL PHYSIOLOGICAL STIMULATION AND ASSESSMENT OF BRAIN HEALTH

Abstract: A system and diagnostic signatures which are derived from the data collected in the system captures multiple streams of biological sensor data for assessing brain health and functionality of a user. The system includes a plurality of biological sensors adapted to collect biological sensor data from the user as well as the ability to stimulate the brain in a variety of sensory, cognitive, physical, and chemical challenges. Several of the biological sensors are accommodated in an electronics module mounted on the user's head.

Classifications:

International (IPC 8-9): A61B10/00 A61B5/00 A61B5/024 A61B5/0245 A61B5/0478 A61B5/0484 A61B5/05 A61B5/053 A61B5/11 A61B5/145 A61B5/1455 A61B5/16 A61B8/00 G06F15/00 G06F19/18 G10L13/00 G10L21/00 G6F19/18 (Advanced/Invention)
CPC: A61B5/024 A61B5/04847 A61B5/0533 A61B5/1118 A61B5/163 A61B5/4064 A61B5/4088 A61B5/6803 A61B5/02405 A61B5/0478 A61B5/04842 A61B5/04845 A61B5/14542 A61B5/16
US: 600/301



Family:

Publication number	Publication date	Application number	Application date
AU2014228116 AA	20151105	AU20140228116	20140314
AU2014228116 BB	20190103	AU20140228116	20140314
CA2906652 AA	20150914	CA20142906652	20140314
CN105592798 A	20160518	CN201480027238	20140314
EP2967484 A2	20160120	EP20140762521	20140314
EP2967484 A4	20161109	EP20140762521	20140314
JP2016517325 T2	20160616	JP20160502695T	20140314
KR20160055103 A	20160517	KR20157029845	20140314
US2016022167 AA	20160128	US20140773878	20140314
WO14143896 A2	20140918	WO2014US28061	20140314
WO14143896 A3	20141113	WO2014US28061	20140314

Priority:

US20130799842P 20130315 US20130836294P 20130618 US20140932915P 20140129
WO2014US28061 20140314 US20140773878 20140314

Probable Assignee: CERORA INC

Assignee(s): (std): CERORA INC ; SIMON ADAM J ; SIMON ADAM

Inventor(s): (std): SIMON ADAM J

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; CARPMAELS AND RANSFORD LLP; DUNNAM MICHAEL P

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

9) Family number: 67326269 (US2019117106A)

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Title: PROTOCOL AND SIGNATURES FOR THE MULTIMODAL PHYSIOLOGICAL STIMULATION AND ASSESSMENT OF TRAUMATIC BRAIN INJURY

Abstract: A system and method for assessing brain function is disclosed that comprises electronically recording biologic information of a user with one or more electronics modules as the user progresses through a series of cognitive, sensory, activation, and/or stimulation tasks. The method includes extracting one or more data features from the record biologic

information to obtain extracted data features. The method includes analyzing the extracted data features for each task so to develop a predictive outcome assessment of one or more brain conditions of the user, wherein predictive outcome assessment is at least one of a) an injury determination, b) a brain injury index, or c) a brain health assessment. Medical therapy is provided to the user in accordance with the predictive outcome assessment.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/04 A61B5/0476 A61B5/0478 A61B5/0484 A61B5/16 A61B7/04 (Advanced/Invention)
CPC: A61B5/7257 A61B5/7207 A61B5/0484 A61B5/4064
US: 1/1

Task Number	Lehigh Protocol Task Description	Task Duration
1	Welcome	~ 30 sec
2	Eyes Closed	1 min
3	Eyes Open	1 min
4	Graded Symptom Checklist	Variable
5	SCAT-Orientation	Variable
6	SAC-Immediate Recall (3 trials of 5 words)	Variable
7	SAC-Concentration	Variable
8	BESS-Firm surface	Variable
9	BESS - Foam surface	Variable
10	Pause	Variable
11	SAC-Delayed Recall	Variable
12	K-D 2x3 Saccade Test	Variable
13	6 Hz Binaural Beat Auditory Stimulation (397/403 Hz)	30 sec
14	12 Hz Binaural Beat Auditory Stimulation (393/406 Hz)	30 sec
15	Photic Stimulation (flash screen 3 Hz)	30 sec
16	Visual Pursuit/Fixation Task	60 sec

Family:

Publication number	Publication date	Application number	Application date
AU2017252517 AA	20181206	AU20170252517	20170418
CA3021651 AA	20181018	CA20173021651	20170418
CN109715049 A	20190503	CN201780037917	20170418
US2019117106 AA	20190425	US20170094551	20170418
WO17184609 A1	20171026	WO2017US28147	20170418
WO17184609 A8	20181108	WO2017US28147	20170418

Priority:

US20160324269P 20160418 US20170094551 20170418 WO2017US28147 20170418

Probable Assignee: CERORA INC

Assignee(s): (std): CERORA INC ; DEVILBISS DAVID M ; SIMON ADAM J

Inventor(s): (std): DEVILBISS DAVID ; DEVILBISS DAVID M ; SIMON ADAM J ; SIMON ADAM

Agent(s): FB RICE PTY LTD; GOWLING WLG CANADA LLP; C6 PATENT GROUP INC OPERATING CARBON PATENT GROUP AS; DUNNAM MICHAEL P; PERDOK MONIQUE

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

10) Family number: 58931321 (US2016213301A)

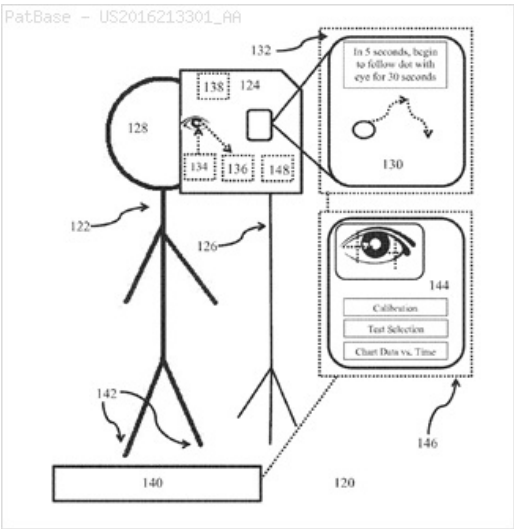
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Title: EYE MOVEMENT MONITORING OF BRAIN FUNCTION

Abstract: The present disclosure provides a wearable device for the detection of mild traumatic brain injury, such as concussions, and methods of use thereof. Further disclosed are a method and system for detecting a mild traumatic brain injury.

Classifications:

International (IPC 8-9): A61B3/113 A61B5/00 A61B5/11 A61B5/16 A61B6/00 (Advanced/Invention)
CPC: A61B3/113 A61B5/11 A61B5/4064 A61B5/4076 A61B5/4082 A61B5/4842 A61B5/4863 A61B5/6814 A61B5/7246 A61B5/7282 A61B5/7405 A61B5/743 A61B2503/10
US: 1/1 600/477



Family:

Publication number	Publication date	Application number	Application date
AU2014329339 AA	20160512	AU20140329339	20141003
AU2014329339 BB	20181025	AU20140329339	20141003
CA2925945 AA	20160330	CA20142925945	20141003

EP3052005 A1	20160810	EP20140851258	20141003
EP3052005 A4	20170510	EP20140851258	20141003
US2016213301 AA	20160728	US20140026229	20141003
US9895100 BB	20180220	US20140026229	20141003
WO15051272 A1	20150409	WO2014US59098	20141003

Priority:

US20130886982P 20131004 US20140026229 20141003 WO2014US59098 20141003

Probable Assignee: INDIANA UNIV RESEARCH AND TECHNOLOGY CORP

Assignee(s): (std): INDIANA UNIV RES AND TECH CORP ; INDIANA UNIV RES AND TECH CORPORATION ; UNIV INDIANA RES AND TECH CORP ; INDIANA UNIV RESEARCH AND TECHNOLOGY CORP

Assignee(s): INDIANA UNIV RESEARCH AND TECHNOLOGY CORPORATION ; INDIANA UNIV RESEARCH AND TECHNOLOGY CORPORATION ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; PORT NICHOLAS L

Inventor(s): (std): PORT NICHOLAS L

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; GRIFFITH HACK; TORYS LLP; ATKINSON PETER BIRCH; FAEGRE BAKER DANIELS LLP; TAMM KEVIN 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 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

11) Family number: 53125393 (US2013053652A)

PatBase

Title: SYSTEM, BUSINESS AND TECHNICAL METHODS, AND ARTICLE OF MANUFACTURE FOR DESIGN, IMPLEMENTATION, AND USAGE OF BIOMETRIC, PROXIMITY, AND OTHER SENSORS TO DETECT, RECORD, AND TREAT PERSONS THAT MAY BE OR HAVE BEEN INVOLVED IN CERTAIN PHYSICAL INJURIES OR DISABILITIES

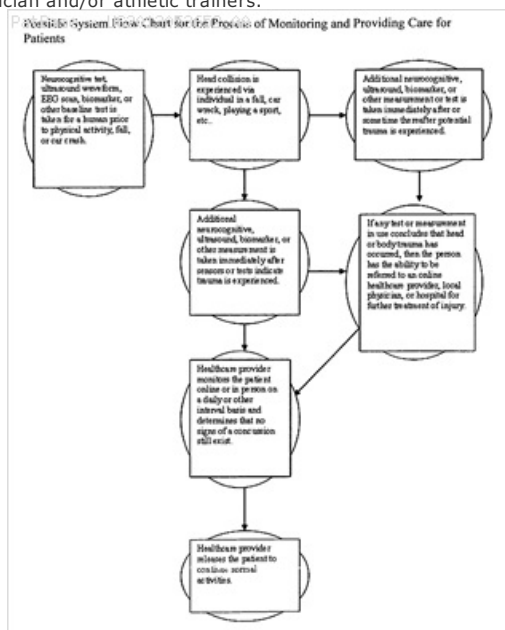
Abstract: Non-invasive brain and body injury and vital sign assessment monitors, as well as methods for providing Internet-enabled care and recovery services for related conditions and injuries are disclosed. The sensors may be enclosed in a head wrap known as a skull cap, or they may be worn on other parts of the body such as the wrist or ankle. The Internet-enabled care systems related to injuries are intended to provide a step-by-step process for providing care and recovery services, as well as coordinating all stakeholders through the care and recovery process. Stakeholders include the athlete, parent or guardian for youth sport players, coach, educators or teachers, physician and/or athletic trainers.

Classifications:

International (IPC 8-9): A61B3/11 A61B3/14 A61B5/00 A61B5/0205 A61B5/026 A61B5/0476 A61B5/11 A61B5/145 A61B7/00 A61C5/14 (Advanced/Invention)

CPC: A61B5/7282 A61B5/746 A61B2562/0219 A61B5/0476 A61B5/02055 G06F19/3418 G06F19/3456 A61B5/11 A61C5/90 G16H40/67 G16H20/70 A61B5/0022 A61B5/0042 A61B5/0261 A61B5/4064 A61B5/6803 A61B3/112 A61B3/14 A61B5/002 A61B5/0205 A61B5/1101 A61B5/14517 A61B5/4082 A61B5/4088 A61B5/4094 A61B5/4875 A61B5/7246 A61B7/00

US: 600/301 600/595



Family:

Publication number	Publication date	Application number	Application date
US2013053652 AA	20130228	US20110219605	20110827
US2013150684 AA	20130613	US20130760797	20130206
US2013217977 A9	20130822	US20110219605	20110827

Priority:

US20100378494P 20100831 US20100388186P 20100930 US20110453197P 20110316
US20110219605 20110827 US20120595195P 20120206 US20120646390P 20120514
US20120719499P 20121029 US20120724676P 20121109 US20130760797 20130206

Probable Assignee: COONER JASON RYAN

Assignee(s): (std): COONER JASON RYAN

Inventor(s): (std): COONER JASON RYAN

12) Family number: 60955414 (US2017112427A)

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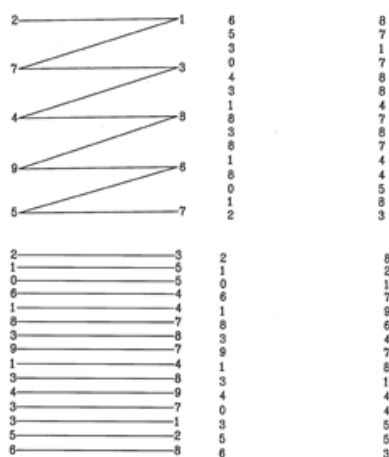
Title: MULTIMODAL HEALTH ASSESSMENT WITH NEURO-OPHTHALMOLOGICAL SACCAD E TESTS

Classifications:

CPC: A61B5/1103 A61B5/4064 A61B3/02 A61B5/04842 A61B5/0496
A61B5/1128

US: 1/1 600/558

PatBase - US2017112427 AB



Prior Art
FIG. 1

Publication number	Publication date	Application number	Application date
CA2950906 AA	20161130	CA20152950906	20150529
US2017112427 AA	20170427	US20150315092	20150529
WO15184333 A1	20151203	WO2015US33294	20150529

US20140005639P 20140530 US20150315092 20150529 WO2015US33294 20150529

Assignee(s): (std): CERORA INC ; SIMON ADAM J

Assignee(s): DEVILBISS DAVID M

Inventor(s): (std): SIMON ADAM J ; DEVILBISS DAVID M

Agent(s): SMART AND BIGGAR; DUNNAM MICHAEL P

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 TH TJ TM TN TR TT TZ UA UB US UZ VC VN ZA ZW ZC

Abstract: A system for outputting a visual representation of a brain of a patient is configured to receive sensor data representing a behavior of a region of the brain of the patient. The system retrieves mapping data that maps a prediction value to the region. The prediction value is indicative of an effect on a behavior of the patient responsive to a treatment of the region, the mapping data being indexed to a patient identifier. The system receives, responsive to an application of a stimulation to the region, sensor data representing behavior of the region. The system executes a model that updates, based on the sensor data, the prediction value for the region. The system updates, responsive to executing the model, the mapping data by including the updated prediction value in the mapping data. The system outputs a visual representation of the updated mapping data comprising the updated prediction value.

Classifications:

CPC: A61N1/02 A61N1/18 G06N3/02 G06N3/08 G06N7/02
G06N20/00 A61B5/0006 A61B5/0013 A61B5/0022 A61B5/0042
A61B5/4064 A61B5/4848 A61B5/7267 A61B5/7425 A61N1/0526
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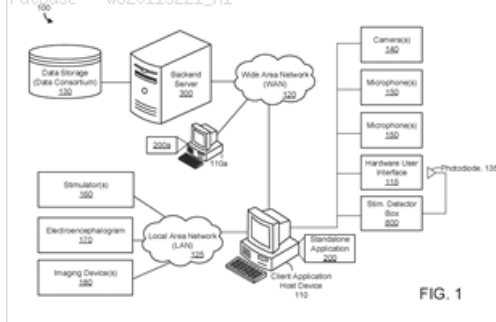


FIG. 1

Publication number	Publication date	Application number	Application date
WO20113221 A1	20200604	WO2019US64015	20191202

US20180917258P 20181130

Probable Assignee: ANGULO ORQUERA HUGO

Assignee(s): (std): ANGULO ORQUERA HUGO ; CHERNOFF BENJAMIN ; MAHON BRADFORD ; PARKINS KEITH ; SIMS MAX

Inventor(s): (std): ANGULO ORQUERA HUGO ; CHERNOFF BENJAMIN ; MAHON BRADFORD ; PARKINS KEITH ; SIMS MAX

Agent(s): MCDONOUGH CHRISTINA V 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

14) Family number: 63370416 (US2018042544A)

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Title: SYSTEM AND METHOD FOR INTRAOPERATIVE CHARACTERIZATION OF BRAIN FUNCTION USING INPUT FROM A TOUCH PANEL DEVICE

Abstract: Systems and methods are provided for performing an intraoperative assessment of brain function based on input that is obtained using a touch panel device, in response to a task, and in the presence of an intervention that is applied to a selected region of the brain. The intervention may be stimulation of the selected region of the brain, such as direct cortical stimulation. In some embodiments, a measure is determined based on the input received from the touch panel. The measure may be a performance measure, related to the performance of the task, and/or a functional measure, associated with an inferred function of the selected region of the brain. In some embodiments, an image of the brain that is registered to an intraoperative reference frame may be annotated or otherwise modified within the selected region based on the measure.

Classifications:

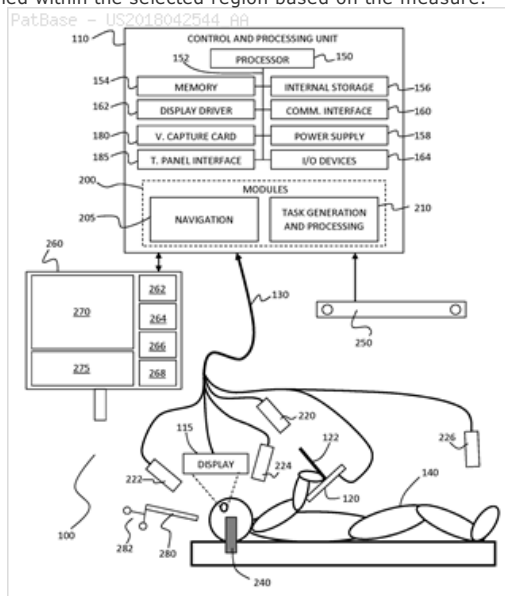
International (IPC 8-9): A61B17/00 A61B5/00

A61B5/16 (Advanced/Invention);

A61B5/0476 (Advanced/Non-invention)

CPC: A61B5/16 A61B5/4064 A61B5/6898 A61B2505/05 A61B5/0476

US: 1/1 600/544



Family:

Publication number	Publication date	Application number	Application date
CA2976391 AA	20170811	CA20152976391	20151002
US2018042544 AA	20180215	US20150553767	20151002
US10506962 BB	20191217	US20150553767	20151002
WO16134446 A1	20160901	WO2015CA50999	20151002

Priority:

US20150121360P 20150226

US20150553767 20151002

WO2015CA50999 20151002

Probable Assignee: SUNNYBROOK RESEARCH INST

Assignee(s): (std): ST MICHAEL S HOSPITAL ; SUNNYBROOK RES INST ; PROVIDENCE ST JOSEPHS AND ST MICHAELS HEALTHCARE ; ST MICHAELS HOSPITAL

Assignee(s): SCHWEIZER TOM ANDREAS ; SUNNYBROOK RESEARCH INST ; TAM FRED ; DAS SUNIT ; GARAVAGLIA MARCO ; GRAHAM SIMON JAMES ; MORRISON MELANIE ANNE ; PROVIDENCE ST JOSEPH S AND ST MICHAEL S HEALTHCARE

Inventor(s): (std): DAS SUNIT ; GARAVAGLIA MARCO ; GRAHAM SIMON JAMES ; MORRISON MELANIE ANNE ; SCHWEIZER TOM ; SCHWEIZER TOM ANDREAS ; TAM FRED

Agent(s): HILL AND SCHUMACHER

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 JO 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

15) Family number: 44898617 (US2010094161A)

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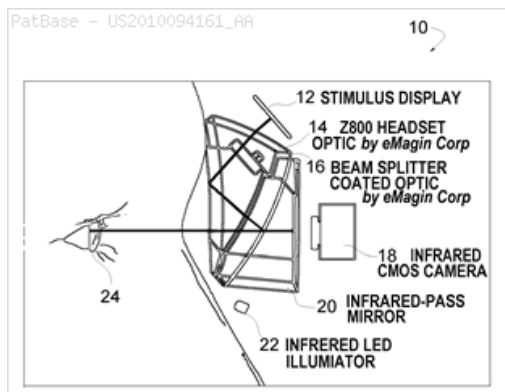
Title: QUANTITATIVE, NON-INVASIVE, CLINICAL DIAGNOSIS OF TRAUMATIC BRAIN INJURY USING SIMULATED DISTANCE VISUAL STIMULUS DEVICE FOR NEUROLOGIC TESTING

Abstract: A portable virtual reality device is disclosed that will facilitate the effective and efficient screening for TBI in military personnel in forward deployed military settings or remote locations using minimally trained staff. This includes the establishment of a protocol that will provide cost effective pre-screening of military personnel prior to deployment to establish a baseline of brain function prior to possible future injury. The efficiency of the device will promote subsequent follow-up screening to assess the effectiveness of prescribed TBI treatment. Further protocols for diagnosis and rehabilitation

applications using the same virtual reality portable device will allow more advanced usage for clinicians providing ongoing evaluation and treatment.

Classifications:

International (IPC 8-9): A61B3/00 A61B3/02 A61B3/113 A61B3/14 A61B5/00 A61B5/0496 A61B5/16 G02B27/01 G02C5/00 (Advanced/Invention); A61B3/032 G02B27/00 (Advanced/Non-invention); A61B5/00 (Core/Invention)
CPC: A61B5/4023 A61B3/02 A61B3/032 A61B3/10 A61B3/0041 G02C5/001 A61B3/14 A61B3/113 A61B5/0496 A61B5/16 A61B5/162 A61B5/163 A61B5/4064 A61B5/4863 A61B5/6803 A61B5/7246 G02B27/0093 G02B27/017 G02B2027/0138 G02B2027/014 G02B2027/0187
European: A61B3/113 A61B5/16 A61B5/48U G02B27/00T G02B27/01C S02B27/01A10 S02B27/01A11
US: 1/1 351/209 351/210 351/246 600/558 600/558P



Family:

Publication number	Publication date	Application number	Application date
US2010094161 AA	20100415	US20090577143	20091009
US2014192326 AA	20140710	US20130083145	20131118
US2014327880 AA	20141106	US20140336254	20140721
US2015335278 AA	20151126	US20150687871	20150415
US2016270711 AA	20160922	US20160050119	20160222
US8585609 BB	20131119	US20090577143	20091009
US9039631 BB	20150526	US20130083145	20131118
US9039632 BB	20150526	US20140336254	20140721
US10398309 BB	20190903	US20150687871	20150415

Priority:

US20080104133P 20081009 US20090577143 20091009 US20130083145 20131118
US20140979765P 20140415 US20140336254 20140721 US20150119088P 20150220
US20150687871 20150415 US20160050119 20160222

Probable Assignee: NEURO KINETICS INC

Assignee(s): (std): FRANK GREG ; JOOS THOMAS ; KIDDERMAN ALEXANDER D ; NEURO KINETICS INC ; SCHROEDER HOWISON ; NEURO KINETICS

Inventor(s): (std): BAKER THOMAS VERNON ; SWEENEY DANIEL ; SCLABASSI ROBERT ; ASHMORE ROBIN C ; SCHROEDER HOWISON ; KIDDERMAN ALEXANDER D ; JOOS THOMAS ; FRANK GREG

Agent(s): BLYNN L SHIDELER BLK LAW GROUP; BLK LAW GROUP; KRISANNE; BLYNN L; SHIDELER BLYNN L; SHIDELER KRISANNE

16) Family number: 43477692 (US2009172540A)

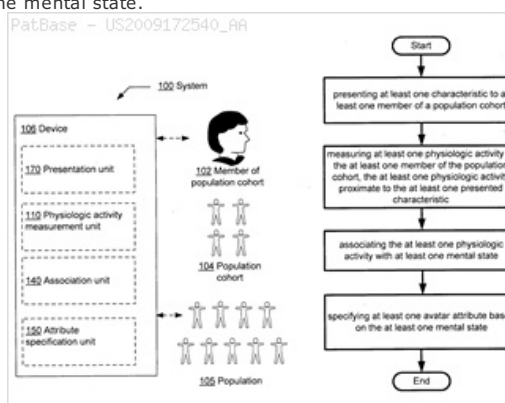
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Title: POPULATION COHORT-LINKED AVATAR

Abstract: Avatars, computer program products, devices and systems are described that relate to at least one cohort-linked avatar comprising at least one avatar attribute that is at least partly based on an association of at least one physiologic activity of at least one member of a population cohort with at least one mental state.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0484 A61B5/16 G06F3/048 (Advanced/Invention); A61B5/04 A61B5/055 A61B5/1455 (Advanced/Non-invention); G06F3/048 (Core/Invention)
CPC: A61B5/04009 A61B5/04842 A61B5/055 A61B5/14553 A61B5/163 A61B5/165 A61B5/4064 A61B5/744
US: 1/1 715/706



Family:

Publication number	Publication date	Application number	Application date
US2009172540 AA	20090702	US20070006232	20071231
US9775554 BB	20171003	US20070006232	20071231

Priority:

US20070006232 20071231

Probable Assignee: SEARETE LLC

Assignee(s): (std): JUNG EDWARD K Y ; LEUTHARDT ERIC C ; LEVIEN ROYCE A ; LORD ROBERT W ; MALAMUD MARK A ; RINALDO JR JOHN D ; SEARETE LLC ; WOOD JR LOWELL L ; INVENT SCIENCE FUND I LLC

Assignee(s): INVENTION SCIENCE FUND I LLC ; SEARETE LLC A LIABILITY OF STATE OF DELAWARE CORP LTD

Inventor(s): (std): LEUTHARDT ERIC C ; LEVIEN ROYCE A ; LORD ROBERT W ; MALAMUD MARK A ; RINALDO JR JOHN D ; WOOD JR LOWELL L ; JUNG EDWARD K Y

Inventor(s): JUNG EDWARD KY
Agent(s): SEARETE LLC CLARENCE T TEGREENE

17) Family number: 48465719 (US2011065074A)

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Title: METHOD AND SYSTEM FOR QUANTITATIVE ASSESSMENT OF VERBAL MEMORY

Abstract: A method is presented to address quantitative assessment of verbal memory of a subject, where the method comprises the steps of: (1) presenting at least one scene to the subject on a display, the scene comprising a plurality of symbols and a background; (2) moving the plurality of symbols relative to the scene, the movement being tracked by the subject via at least one input device; (3) adjusting the saliency of the plurality of symbols relative to the tracked movement; (4) receiving feedback from the subject via said input device; (5) quantitatively refining the received feedback; (6) modulating the movement of the plurality of symbols relative to the accuracy of the quantitatively refined feedback; (7) calculating a critical threshold parameter; and (8) recording a critical threshold parameter onto a tangible computer readable medium. An apparatus for quantitative assessment of verbal memory of a subject comprising a display device, an input device, a control device, and a tangible computer readable medium. In its simplest sense, a quantitative assessment profile of verbal memory by psychophysical responses is generated on a tangible computer readable medium.

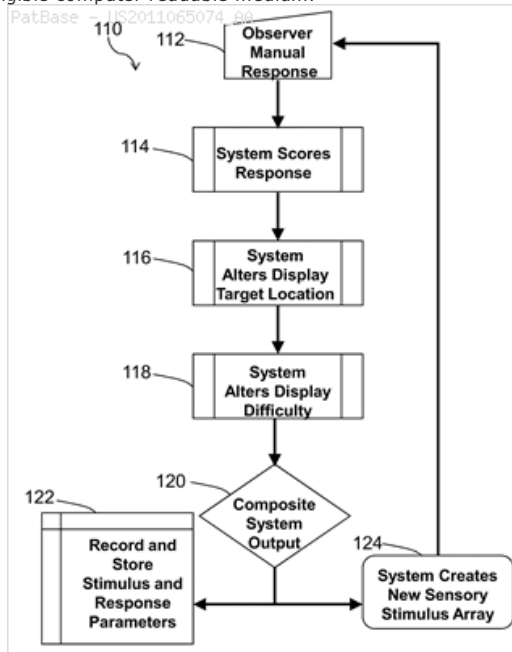
Classifications:

International (IPC 8-9): A61B13/00 A61B3/00 A61B5/00 A61B5/103 A61B5/11 A61B5/12 A61B5/16 G09B13/00 G09B19/00 G09B7/00 G09B7/02 G09B7/06 (Advanced/Invention)

CPC: A61B5/162 A61B5/163 A61B5/165 A61B5/4842 A61B5/1124 A61B5/1125 A61B5/12 A61B5/16 A61B5/168 A61B5/4064 A61B5/4082 A61B5/4088 A61B5/411 A61B5/7435 A61B5/7475 G09B7/00 G09B7/02 G09B7/06 G16H10/20 G16H10/60 G16H40/63 G16H50/20 G16H50/30 A61B3/0091

European: A61B5/16 A61B5/40F2 A61B5/40F4 A61B5/41B G09B7/00

US: 1/1 434/167 434/227 434/236 434/236P 434/353 434/362 600/552 600/558 600/595 600/595S



Family:

Publication number	Publication date	Application number	Application date
US2011065074 AA	20110317	US20090561048	20090916
US2011065075 AA	20110317	US20090561110	20090916
US2014356825 AA	20141204	US20140464794	20140821
US2014356826 AA	20141204	US20140464831	20140821
US2014356827 AA	20141204	US20140464850	20140821
US2014356828 AA	20141204	US20140464858	20140821
US2014356829 AA	20141204	US20140464869	20140821
US2014356830 AA	20141204	US20140464872	20140821
US2014356831 AA	20141204	US20140464885	20140821
US2014356832 AA	20141204	US20140464894	20140821
US2014356841 AA	20141204	US20140464795	20140821
US2014356842 AA	20141204	US20140464822	20140821
US2014363798 AA	20141211	US20140464843	20140821
US2015011908 AA	20150108	US20140332646	20140716
US2015196243 AA	20150716	US20150614124	20150204
US2017150907 AA	20170601	US20160175905	20160607
US8777630 BB	20140715	US20090561110	20090916
US8882510 BB	20141111	US20090561048	20090916
US8974231 BB	20150310	US20140464850	20140821
US8979540 BB	20150317	US20140332646	20140716
US8979541 BB	20150317	US20140464794	20140821
US8979542 BB	20150317	US20140464795	20140821
US8979543 BB	20150317	US20140464831	20140821
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US8979545 BB	20150317	US20140464869	20140821
US8979546 BB	20150317	US20140464872	20140821
US8979547 BB	20150317	US20140464885	20140821
US8986015 BB	20150324	US20140464894	20140821
US9028256 BB	20150512	US20140464822	20140821
US9028257 BB	20150512	US20140464843	20140821

Priority:

US20090561048 20090916	US20090561110 20090916	US20140332646 20140716
US20140464794 20140821	US20140464822 20140821	US20140464795 20140821
US20140464831 20140821	US20140464850 20140821	US20140464869 20140821
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Probable Assignee: COGNIVUE INC

Assignee(s): (std): CEREBRAL ASSESSMENT SYSTEMS INC ; DUFFY CHARLES J ; DUFFY CHARLES JOSEPH ; CEREBRAL ASSESSMENT SYSTEMS LLC ; CEREBRAL ASSESSMENT SYSTEMS INC ; CENTRAL ASSESSMENT SYSTEMS INC

Assignee(s): COGNIVUE INC

Inventor(s): (std): DUFFY CHARLES JOSEPH ; DUFFY CHARLES J

Agent(s): JACOB S; WILLIAM N; HULSEY CALHOUN PC; HULSEY HUNT PC

18) Family number: 70171814 (US2019343447A)

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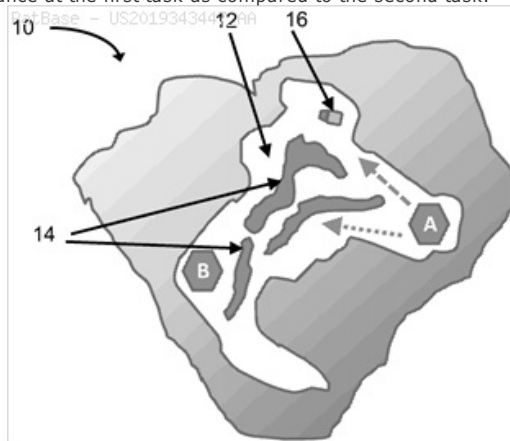
Title: PLATFORM FOR IDENTIFICATION OF BIOMARKERS USING NAVIGATION TASKS AND TREATMENTS USING NAVIGATION TASKS

Abstract: A cognitive platform is disclosed that is configured for either or both of assessing or enhancing the cognitive abilities of an individual based on implementing one or more navigation task(s) in an environment. A first task is rendered that requires the individual to rely on allocentric navigation capabilities to navigate in the environment based on a first set of views of portions of the environment rendered at the user interface. A second task is rendered that requires the individual to rely on egocentric navigation capabilities to navigate in the environment. An indication of a cognitive ability in the individual can be generated based on the difference in the individual's performance at the first task as compared to the second task.

Classifications:

International (IPC 8-9): A61B10/00 A61B5/00 A61B5/055 A61B5/16 A61H1/02 A61N1/36 G06Q10/06 G06Q50/00 G16B15/20 G16B5/00 G16H20/70 G16H50/20 G16H50/30 G16H50/70 (Advanced/Invention)

CPC: A61N1/08 A61B5/00 A61B5/055 A61B5/16 A61N1/36025 A61B5/4082 A61B5/4088 A61B5/744 G16H20/70 G16H50/70 G16B15/20 G16B5/00 G16H50/20 A61B5/4064 A61B5/7475 A61B5/168 A61B5/742 G16H10/60 G16H20/10 G16H40/63 G16H50/30



Family:

Publication number	Publication date	Application number	Application date
AU2017376455 AA	20190613	AU20170376455	20171213
CA3046789 AA	20190611	CA20173046789	20171213
CN110603550 A	20191220	CN201780077280	20171213
EP3555841 A1	20191023	EP20170880170	20171213
EP3555841 A4	20200520	EP20170880170	20171213
JP2020518043 T2	20200618	JP20190551925T	20171213
KR20190091354 A	20190805	KR20197020449	20171213
US2019343447 AA	20191114	US20170466745	20171213
WO18112103 A1	20180621	WO2017US66214	20171213
WO18222729 A1	20181206	WO2018US35155	20180530

Priority:

US20160433769P 20161213 US20170512351P 20170530 US20170466745 20171213
WO2017US66214 20171213

Probable Assignee: AKILI INTERACTIVE LABS INC

Assignee(s): (std): AKILI INTERACTIVE LABS INC ; ALAILIMA TITIIMAEA ; DOELLER CHRISTIAN ; JOHNSON JASON ; MARTUCCI WALTER ; MARTUCCI WALTER EDWARD ; MATEUS ASHLEY ; OMERNICK MATTHEW ; SPIERS HUGO

Inventor(s): (std): ALAILIMA TITIIMAEA ; BERGO MARK ; DOELLER CHRISTIAN ; JOHNSON JASON ; MARTUCCI WALTER EDWARD ; MATEUS ASHLEY ; OMERNICK MATTHEW ; PIPER ADAM ; SPIERS HUGO ; TREES JASON

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; BLAKE STEPHEN JAMES; HUANG REX I; US NATASHA C ET AL

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

19) Family number: 57792822 (US2016120437A)

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Title: SYSTEMS AND METHODS FOR PROVIDING VISUAL FEEDBACK OF TOUCH PANEL INPUT DURING MAGNETIC RESONANCE IMAGING

Abstract: Systems and methods of are disclosed for providing visual feedback to a subject during magnetic resonance imaging, where the visual feedback is associated with input provided by the subject to a magnetic resonance compatible touch panel. A video camera is employed to record video images of the interaction between the subject and the touch panel, and the video images are processed to generate a real-time video signal including a rendering of the input provided to the touch panel and the interaction between the subject's hands and the touch panel. The real-time video signal is provided to

the subject as visual feedback, and is displayed within a time duration that is sufficiently fast to avoid the detection of the visual feedback as an error signal with the subject's brain in relation to the sense of proprioception. A measurement of the force applied to the touch panel by the subject may be recorded and employed when rendering the real-time video. The systems and methods may be employed for a wide range of diagnostic and therapeutic procedures involving magnetic resonance imaging.

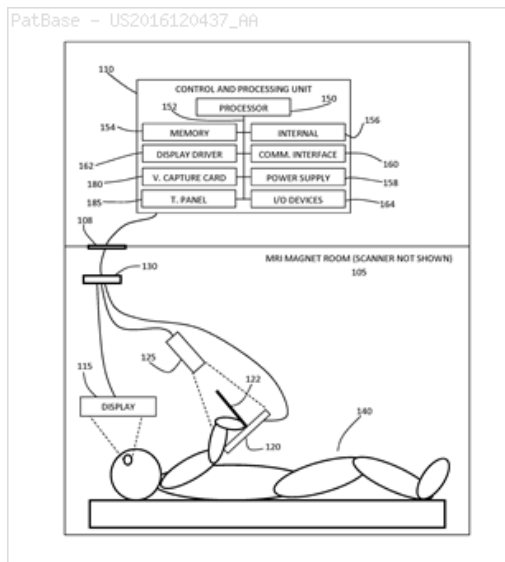
Classifications:

International (IPC 8-9): A61B5/00 A61B5/055 A61B5/16 G01R33/28 G01R33/48 G06F19/00 G06F3/0354 G06F3/041 (Advanced/Invention); G16H40/63 (Advanced/Non-invention)

CPC: G01R33/283 G01R33/4806 G16H40/63 A61B5/0042

A61B5/4064 A61B5/055 A61B5/16 A61B2576/026

US: 600/411



Family:

Publication number	Publication date	Application number	Application date
CA2911756 AA	20151106	CA20142911756	20140509
US2016120437 AA	20160505	US20140890018	20140509
US10582878 BB	20200310	US20140890018	20140509
WO14179890 A1	20141113	WO2014CA50442	20140509

Priority:

US20130821577P 20130509 US20140890018 20140509 WO2014CA50442 20140509

Probable Assignee: SUNNYBROOK RES INST

Assignee(s): (std): BAYCREST HEALTH SCIENCES ; SCHWEIZER TOM A ; SUNNYBROOK RES INST ; BAYCREST CENTRE FOR GERIATRIC CARE

Assignee(s): SUNNYBROOK RESEARCH INST ; TAM FRED ; STROTHER STEPHEN ; GRAHAM SIMON JAMES ; KARIMPOOR MAHTA

Inventor(s): (std): GRAHAM SIMON JAMES ; KARIMPOOR MAHTA ; SCHWEIZER TOM A ; STROTHER STEPHEN ; TAM FRED

Agent(s): HILL AND SCHUMACHER

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

20) Family number: 43432854 (US2009164131A)

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Title: METHODS AND SYSTEMS FOR SPECIFYING A MEDIA CONTENT-LINKED POPULATION COHORT

Abstract: Avatars, methods, apparatuses, computer program products, devices and systems are described that carry out identifying at least one instance of media content as a prospective cohort-linked attribute; presenting to at least one member of a population the at least one instance of media content; measuring at least one physiologic activity of the at least one member of the population, the at least one physiologic activity proximate to the at least one instance of media content; associating the at least one physiologic activity with at least one mental state; and specifying at least one population cohort based on the at least one mental state.

Classifications:

International (IPC 8-9): A61B5/05 A63F9/24 G01N33/00 G06F17/30 G06Q30/00 (Advanced/Invention);

A61B5/05 A63F9/24 G01N33/00 G06F17/30

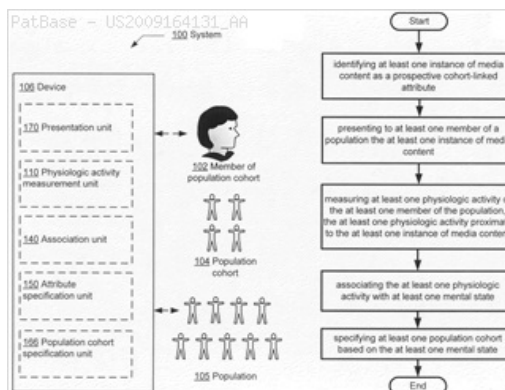
G06Q30/00 (Core/Invention)

CPC: A61B3/113 A61B5/04005 A61B5/0484 A61B5/167 A61B5/726

G06Q30/02 G06Q30/0601 A61B5/4064 G06F16/436 A61B5/16 A61B5/163

European: A61B5/16 A61B5/16H G06F17/30E G06F17/30E2F1 G06Q30/02 G06Q30/0601 K61B3/113 K61B5/0484 K61B5/04M K61B5/72K10D

US: 1/1 1/1P 463/36 463/36S 600/407 600/407S 702/19 702/19P 705/26 705/26.1 705/26.100S 705/26S 707/102 707/999.102 707/999.102S 707/E17.005 707/E17.005S



Family:

Publication number	Publication date	Application number	Application date
US2009164131 AA	20090625	US20070006233	20071231
US2009164503 AA	20090625	US20070005151	20071220

Priority:

US20070005151 20071220 US20070006233 20071231

Probable Assignee: SEARETE LLC**Assignee(s):** (std): SEARETE LLC**Assignee(s):** SEARETE LLC A LIABILITY OF STATE OF DELAWARE CORP LTD**Inventor(s):** (std): LEUTHARDT ERIC C ; LEVIEN ROYCE A ; LORD ROBERT W ; MALAMUD MARK A ; RINALDO JR JOHN D ; WOOD JR LOWELL L ; JUNG EDWARD K Y**Inventor(s):** JUNG EDWARD KY**Agent(s):** SEARETE LLC CLARENCE T TEGREENE**21) Family number: 68587928 (US2019167179A)**

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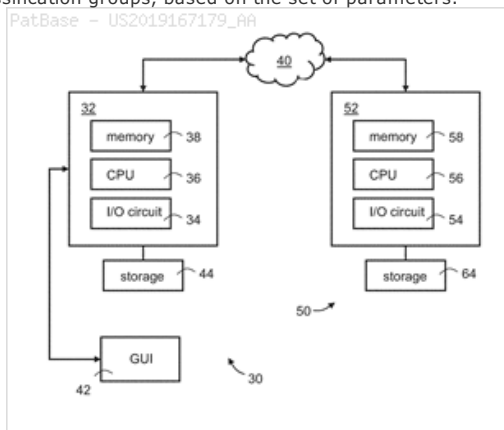
Title: METHODS AND SYSTEM FOR ASSESSING A COGNITIVE FUNCTION

Abstract: A method of neuropsychological analysis comprises: presenting to a subject, by a user interface, a subject-specific cognitive task having at least one task portion selected from the group consisting of a time-domain task portion, a space-domain task portion, and a person-domain task portion. The method also comprises receiving responses entered by the subject using the user interface for each of the task portions, representing the responses as a set of parameters, and classifying the subject into one of a plurality of cognitive function classification groups, based on the set of parameters.

Classifications:**International (IPC 8-9):** A61B5/00 (Advanced/Invention)**CPC:** A61B5/7264 A61B5/16 G16H50/20 G16H50/70 A61B5/0022

A61B5/4064 A61B5/4088 A61B5/4848 A61B5/7267 A61B5/742

A61B5/7475

US: 1/1**Family:**

Publication number	Publication date	Application number	Application date
US2019167179 AA	20190606	US20170323791	20170807
WO18029679 A1	20180215	WO20171L50872	20170807

Priority:

US20160371784P 20160807 US20170323791 20170807 WO20171L50872 20170807

Probable Assignee: HADASIT MED RES SERVICE**Assignee(s):** (std): HADASIT MED RES SERVICE ; HADASIT MEDICAL RES SERVICES AND DEVELOPMENT LTD**Assignee(s):** HADASIT MEDICAL RESEARCH SERVICES AND DEVELOPMENT LTD**Inventor(s):** (std): ARZY SHAHAR**Agent(s):** 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 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

22) Family number: 50118938 (US2011307079A)

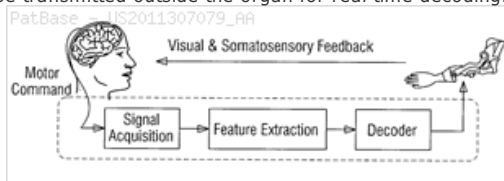
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Title: MULTISCALE INTRA-CORTICAL NEURAL INTERFACE SYSTEM

Abstract: Apparatus, systems, and methods may operate to collect neuro data from an organ, such as a brain. Spikes may be detected using raw neuro data collected from the organ. The spikes may be sorted. Underlying neuronal firing rates may be estimated using the sorted spikes. The neuronal firing rates may be transmitted outside the organ for real time decoding.

Classifications:**International (IPC 8-9):** A61B5/0482 A61F2/00 A61F2/54 A61F2/60 A61M5/168 (Advanced/Invention)**CPC:** A61B5/7232 A61B5/726 A61B5/7264 A61B5/7267 A61B5/4064

A61B5/4094 A61B5/048 A61F2/72 G06F3/015 G16H50/20

European: A61B5/048 G06F3/01B8 K61F2/72**US:** 600/545 600/545S 604/66 604/66S 623/27 623/27P 623/57 623/57S 623/66.1 623/66.100S**Family:**

Publication number	Publication date	Application number	Application date
US2011307079 AA	20111215	US20110098376	20110429

Priority:

US20100329437P 20100429 US20110098376 20110429

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23) Family number: 44149974 (US2009318773A)

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Title: INVOLUNTARY-RESPONSE-DEPENDENT CONSEQUENCES

Abstract: Systems and methods are described for obtaining and acting upon information indicative of a human or other subject's response to stimuli and related phenomena.

Classifications:

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

CPC: A61B3/113 A61B5/0073 A61B5/0205 A61B5/02055

A61B5/04009 A61B5/04842 A61B5/04845 A61B5/0533 A61B5/055

A61B5/0816 A61B5/11 A61B5/14532 A61B5/14553 A61B5/163

A61B5/165 A61B5/4064 A61B5/4803 A61B5/726 A61B6/037

A61B6/501 G16H10/20

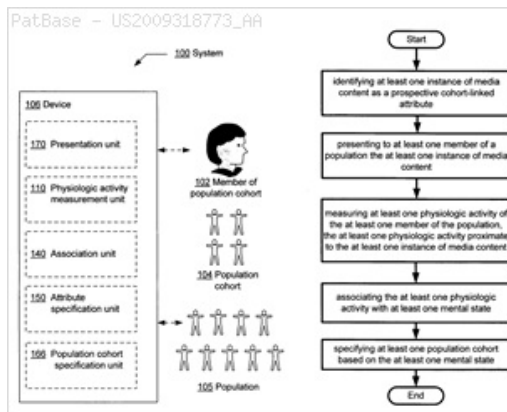
European: A61B5/0484B A61B5/04M4B A61B5/16H A61B5/48B

A61B6/03D A61B6/50B G06F19/36A K61B3/113 K61B5/00P6

K61B5/0205 K61B5/0205B K61B5/0484D K61B5/053B4 K61B5/055

K61B5/08R K61B5/11 K61B5/1455N4 K61B5/145G K61B5/72K10D

US: 600/300 600/300P



Family:

Publication number	Publication date	Application number	Application date
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