

Search history

Search 1: Carpal and Tunnel and Syndrome, and system and sensor and monitoring. (Results 772)

Search 2: 1 and glove (Results 58)

Title: NERVE CONDITION MONITORING **SYSTEM** AND ELECTRODE SUPPORTING STRUCTURE

Abstract: A portable **system** for substantially automated monitoring of nerve conduction velocity through the **carpal tunnel** of a patient includes an electrode supporting structure which supports stimulating and pickup electrodes in a predetermined spatial relationship so as to contact the patient's arm and hand. The electrode supporting structure is a part of a housing which contains stimulating signal generating and response signal processing circuitry, which operates substantially automatically under control of a microprocessor. The microprocessor controls generation of stimulating pulses and determines the elapsed time until the occurrence of a predetermined response signal characteristic, such as its peak. Data relating to nerve conduction time or velocity measurements and response signal waveform are stored in a removable memory to permit later analysis and treatment recommendation by a physician. The **system** is useful for screening large groups of people at remote locations, such as workers at an employer's facilities, for evaluating their median nerve condition and likelihood of developing **carpal tunnel syndrome**.

Classifications:

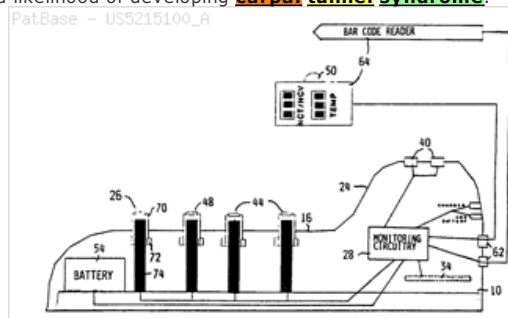
International (IPC 8-9): A61B5/05 (Advanced/Invention);
A61B5/05 (Core/Invention)

International (IPC 1-7): A61B5/05

CPC: A61B5/4041 A61B5/05

European: A61B5/05

US: 128/420.5 128/639 128/741 600/554



Family:

Publication number	Publication date	Application number	Application date
CA2109519 AA	19931028	CA19922109519	19920429
EP0591273 A1	19940413	EP19920912151	19920429
EP0591273 A4	19951102	EP19920912151	19920429
US5215100 A	19930601	US19910692930	19910429
WO9219156 A1	19921112	WO1992US03559	19920429

Priority:

US19910692930 19910429

WO1992US03559 19920429

Probable Assignee: HEALTHSOUTH OCCUPATIONAL AND PREVENTIVE DIAGNOSTICS PARTNERSHIP LTD

Assignee(s): (std): HEALTHSOUTH OCCUPATIONAL AND P ; OCCUPATIONAL PREVENTIVE DIAGNO

Assignee(s): OCCUPATIONAL PREVENTIVE DIAGNOSTICS INC ; OCCUPATIONAL PREVENTIVE DIAGNOSTIC INC ; SPITZ LAWRENCE K ; MUSSER SCOTT N ; HEALTHSOUTH OCCUPATIONAL AND PREVENTIVE DIAGNOSTIC ; HEALTHSOUTH OCCUPATIONAL AND PREVENTIVE DIAGNOSTICS LIMITED PARTNERSHIP ; HEALTHSOUTH OCCUPATIONAL AND PREVENTIVE DIAGNOSTICS PARTNERSHIP LTD ; JAEGER SCOTT N

Inventor(s): (std): SPITZ LAWRENCE K ; MUSSER SCOTT N ; JAEGER SCOTT N ; JAEGER SCOTT

Inventor(s): OCCUPATIONAL PREVENTIVE DIAGNOSTICS INC

Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: AT BE CA CH DE DK ES FR GB GR IT LI LU MC NL SE

Title: PUSHLESS TWO-HAND RUN BAR APPARATUS

Abstract: A two-hand operator's control station mounted on a common enclosure detects an operator's hands and provides output signals without requiring the operator to push buttons. Such control stations, called pushless run bars, are for use with automatic machinery which requires the simultaneous use of two hands to initiate operation of the machinery. In each embodiment of the present invention, two hand-sensing mechanisms are provided on or near the cover of an elongated enclosure, one for sensing each hand. The sensing mechanisms are located sufficiently far apart, near opposite ends of the run bar enclosure, to prevent accidental operation by one hand. Suitable anti-tie-down circuitry, an electrical cover interlock, indicator lights, and physical barriers to prevent access from certain directions may also be provided as part of the apparatus. A first embodiment of the run-bar apparatus employs two separate photo-transceiver units for detecting the operator's two hands. A second run bar employs two capacitive **sensor** units for detecting the operator's hands. A third run bar employs two passive infra-red intrusion devices to detect the operator's hands. A fourth embodiment employs two ultrasonic sensing **systems** to detect the operator's hands. A fifth run bar employs passive infrared intrusion devices to detect the presence of the operator's hands. A third **sensor** may be provided to detect the operator's body in front of the run bar.

Classifications:

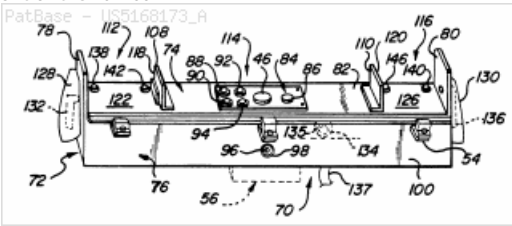
International (IPC 8-9): F16P3/20 (Advanced/Invention);
F16P3/00 (Core/Invention)

International (IPC 1-7): H01H9/00

CPC: F16P3/20 Y10T307/747 Y10T307/766 Y10T307/937

European: F16P3/20

US: 192/129A 192/131R 307/113 307/116 307/139



Family:

Publication number	Publication date	Application number	Application date
US5168173 A	19921201	US19900519135	19900504
US5319250 A	19940607	US19920983807	19921130

Priority:

US19900519135 19900504 US19920983807 19921130

Probable Assignee: CONTROL DEVICES INC

Assignee(s): (std): CONTROL DEVICES INC

Inventor(s): (std): WINDSOR DAVID E

Title: AUTOMATICALLY-ACTIVATED HAND-SUPPORTABLE LASER SCANNING BAR CODE SYMBOL READING **SYSTEM** WITH OMNIDIRECTIONAL AND UNIDIRECTIONAL SCANNING MODES IN ADDITION TO A DATA TRANSMISSION ACTIVATION SWITCH

Abstract: A hand-supportable bar code symbol reading device having a laser scanning engine that is controlled to selectively operate in either an omni-directional scan mode or a single line scan mode. In the single line scan mode of operation, symbol character data produced by the laser scanning engine is communicated to a host device in response to an activation signal produced by a data transmission switch. In the omni-directional scan mode, symbol character data is communicated to the host device irrespective of the activation signal. Preferably, mode selection means selectively operates the laser scanning engine in either the omni-directional scan mode of operation or the single line scan mode of operation in response to placement of the device in a support stand, thereby enabling automatic operation as a stationary hands-free omni-directional projection scanner (in stand), and automatic operation as a portable hand-held line scanner (out of stand).

Classifications:

International (IPC 8-9): G02B26/10 G06K17/00 G06K19/06 G06K5/00 G06K7/00 G06K7/016 G06K7/10 G06K7/14 G06K9/22

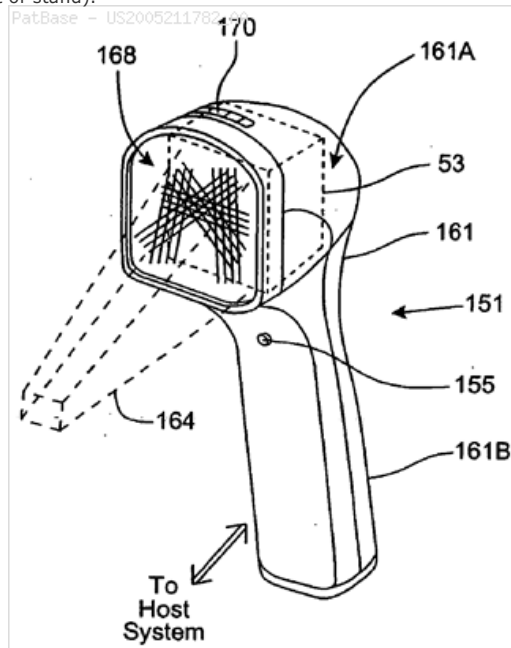
G07G1/00 (Advanced/Invention);
G06K H04N (Subclass/Invention)

International (IPC 1-7): G06K G06K7/10 G06K9/22

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US: 235/462.01 235/462.08 235/462.09 235/462.33 235/462.42 235/462.43 235/462.45 235/462.450P 235/462.46 235/462.460P 235/462.460S 235/462.48 235/462.480P 235/472.01 235/472.02 235/472.020P



Family:

Publication number	Publication date	Application number	Application date
AT170013 E	19980915	AT19930904531T	19930115
AT175509 E	19990115	AT19920920244T	19920917
AT227864 E	20021115	AT19920201375T	19920917
AT269993 E	20040715	AT19960944986T	19961218
AT336047 E	20060915	AT19990076763T	19991202
AU199713458 A1	19970714	AU19970013458	19961218
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EP1723574 A2	20061122	EP20040809924	20041012
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Priority:

US19900580738	19900910	US19900580740	19900911	US19900583421	19900917
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US20070978526	20071029				

Probable Assignee: METROLOGIC INSTRUMENTS INC

Assignee(s): (std): METROLOGIC INSTR INC ; MARTIN WILLIAM ; GIORDANO PATRICK A ; HUDRICK DONALD ; HEJL BENJAMIN ; MOVSESSIAN SERGIO ; METROLOGIC INSTRUMENTS INC ; AMUNDSEN THOMAS ; COLAVITO STEPHEN ; DEFONEY SHAWN ; DIPLACIDO KEVIN ; EDMONDS SHANE ; GIORDANO PATRICK ; WILZ DAVID M SR ; RUSSELL GARRETT ; SCHMIDT MARK C ; VEKSLAND MIKHAIL ; OSBORN JAMES

Assignee(s): METROLOGIC INSTRUMENTS INC ; MORGAN STANLEY AND CO INC ; METEOR HOLDING CORP ; OMNIPLANAR INC ; METROLOGIC INSTRUMENTS INC BLACKWOOD ; WILZ DAVID M

Inventor(s): (std): WILZ SR DAVID M ; XU CONGWEI ; ZHANG WUQING ; ZHU XIAOXUN ; WILZ SR ; WANG LIN ; SHI SHAMEI ; ROCKSTEIN GEORGE B ; JIN HONGJIAN ; JIANG MIN ; JI MINGQING ; HU MENG ; BYUN SUNG ; BONANNO JOHN ; BLAKE ROBERT ; WILZ DAVID M SR ; VEKSLAND MIKHAIL ; SCHMIDT MARK C ; RUSSELL GARRETT ; OSBORN JAMES ; MARTIN WILLIAM ; HUDRICK DONALD ; HEJL BENJAMIN ; GIORDANO PATRICK A ; EDMONDS SHANE ; DIPLACIDO KEVIN ; DEFONEY SHAWN ; COLAVITO STEPHEN ; AMUNDSEN THOMAS ; AU KA M ; AU KA MAN ; BLAKE ROBERT E ; COLAVITO STEPHEN J ; GIORDANO PATRICK ; HUDRICK DONALD T ; JI KAI ; JIANG MING ; KNOWLES CARL HARRY ; LIU LIANG ; MOVSESSIAN SERGIO ; ROCKSTEIN GEORGE ; RUSSELL GARRETT K ; SCHMIDT MARK ; KNOWLES C H ; KNOWLES C HARRY ; WILZ DAVID M ; KNOWLES HARRY ; GROOT JOHN ; DICKSON LEROY ; KNOWLES CARL H

Inventor(s): JOHN GROOT ; HARRY KNOWLES ; AU KA ; WILZ DAVID MSR ; KNOWLES CARL ; WILZ DAVID ; KNOWLES C ; WILZ ; THOMAS AMUNDSEN ; SR DAVID M ; LEROY DICKSON

Agent(s): SMART AND BIGGAR; DUNLOP HUGH CHRISTOPHER; AKIMOTO YOSHIO; MASUI CHUJI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; THOMAS J PERKOWSKI ESQ PC SOUNDVIEW PLAZA; THAMAS J PERKOWSKI ESQ PC; THOMAS J PERKOWSKI ESQ PC; THOMAS J; PERKOWSKI ESQ PC THOMAS J

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 KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: TIME DISPLAY **SYSTEM**, METHOD AND DEVICE

Abstract: A time display device ("TDD")-equally adaptable to watches, clocks, computers, phones, and vehicles-indicates the current hour of the day by displaying a color that refers an observer to the disclosed color-to-hour matrix, thereby eliminating the traditional hour hand or digit altogether. Alternately adaptable to months, the **system** may be used with both mechanical and electronic displays. Various disclosed minute indicators provide minute indication by shape, complexity, company logo, air bubbles, or other novel methods. Environmental **sensors** allow switching between functions. TDD appearance is user-customizable via Internet. Birthstones, gemstones, and precious metals are alternately used as stand-alone time indicators.

Classifications:

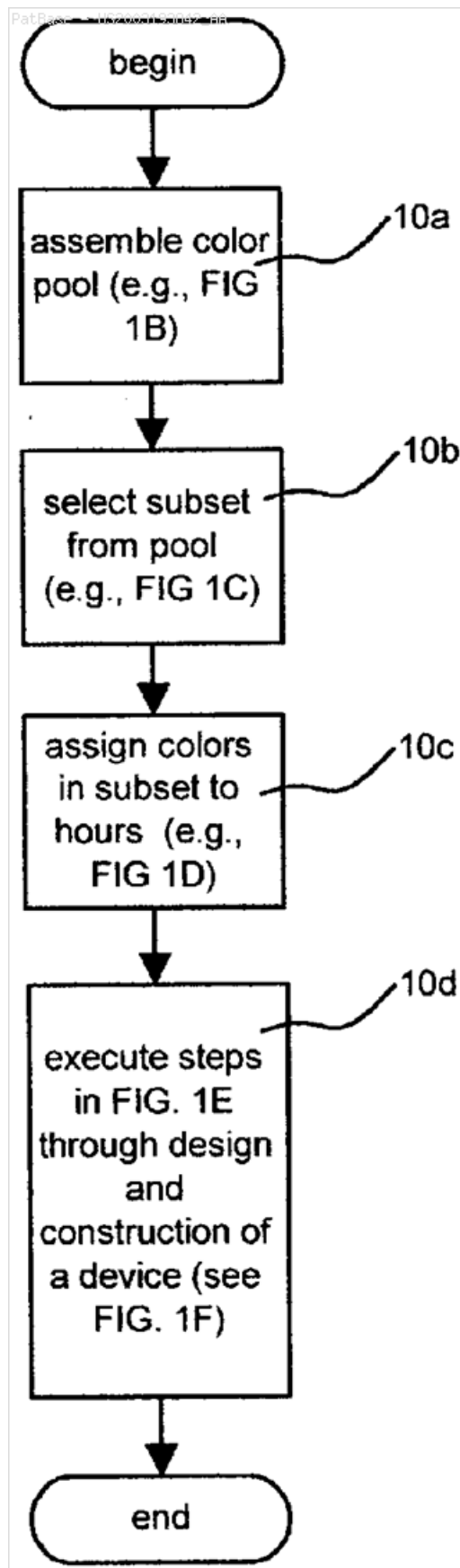
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H04M1/00 (Advanced/Invention);
G04B25/00 G04C17/00 G04C19/00 G04G9/00 G06F1/16 G06F3/02
G06F3/023 G06K17/00 G06K7/10 G10H1/00 G10H1/02 G10H3/00
H04B1/38 H04M1/00 (Core/Invention)

International (IPC 1-7): A47B23/00 A47F5/00 G04C19/00 G06F1/16
G06F3/02 G06F3/023 G06K7/10 G09G5/00 G10H1/02 G10H1/34
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G04G9/02 G04G9/06 G04G9/124 G10H1/0083 G10H2230/015
G10H2240/115 G10H2240/285 G10H2240/305 G10H2240/311 G10H3/186

European: G04B25/00 G04C17/00 G04C17/00V G04G9/00H G04G9/02
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G10H3/18P S10H230/015 S10H240/115 S10H240/285 S10H240/305
S10H240/311

US: 128/869 128/878 235/462.44 235/462.440P 235/462.45 235/472.01
235/472.02 341/20 341/21 341/22 345/169 361/679.03 361/679.1
361/679.26 368/10 368/11 368/14 368/14P 368/223 368/223P 368/239
368/239S 368/28 368/28P 368/37 368/82 368/82P 455/556.1
455/556.100S 455/566 455/566S 602/20 602/21 602/5 84/737 84/737P



Family:

Publication number	Publication date	Application number	Application date
■ AU199722481 A1	19970820	AU19970022481	19970122
■ EP0876707 A1	19981111	EP19970905642	19970122
■ EP0876707 A4	20010816	EP19970905642	19970122
■ JP2001513918 T2	20010904	JP19970519987T	19970122

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 US6184804 BA	20010206	US19980117150	19980723
 US6595424 BA	20030722	US20000724701	20001128
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 US7525877 BB	20090428	US20070784303	20070406
 WO9727674 A1	19970731	WO1997US01356	19970122

Priority:

US19960010648	19960126	US19960010648P	19960126	US19970117150	19970122
WO1997US01356	19970122	US19980117150	19980723	US20000724701	20001128
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Probable Assignee: SEARCH AND SOCIAL MEDIA PARTNERS LLC

Assignee(s): (std): HARRISON JR SHELTON E ; HARRISON SHELLEY ; HARRISON SHELTON E ; HARRISON SHELTON E JR ;
ORANG OTANG COMPUTERS INC ; SHELLEY HARRISON

Assignee(s): SEARCH AND SOCIAL MEDIA PARTNERS LLC ; HARRISON JR

Inventor(s): (std): HARRISON SHELTON E ; HARRISON SHELTON E JR ; HARRISON SHELLEY ; HARRISON JR SHELTON E

Inventor(s): HARRISON ; HARRISON SHELTON ; SHELLEY HARRISON ; JR SHELTON E ; HARRISON SHELTON EJR

Agent(s): SHELTON E HARRISON JR

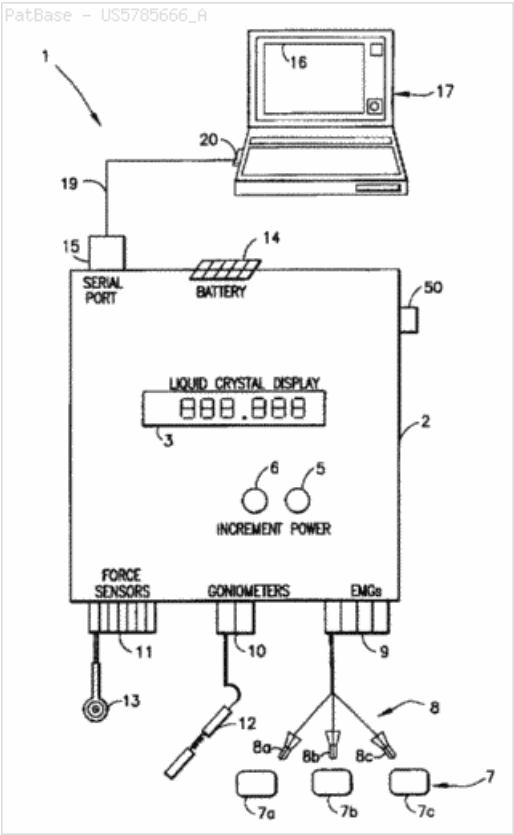
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SI SK SZ TJ TM TR TT UA UG US UZ VN

Title: Portable electronic data collection apparatus for monitoring musculoskeletal stresses

Abstract: A portable biofeedback apparatus and method for simultaneously gathering information regarding more than one type of musculoskeletal stress. The apparatus has at least two different types of user-selectable **sensors** for converting different kinds of musculoskeletal activities into electrical signals. An analog-to-digital converter samples the electrical signals at predetermined rates. A memory receives and stores the digital signals. A processor centrally controls the collection, sampling, display and transmittal of the digital data. Magnitudes of the digital signals are simultaneously and in real-time graphically portrayed as a function of time.

Classifications:

International (IPC 8-9): A61B5/00 (Advanced/Invention);
A61B5/0488 A61B5/103 A61B5/22 (Advanced/Non-invention)
International (IPC 1-7): A61B5/0265 A61B5/04 A61B5/103 A61B5/117
CPC: A61B5/0488 A61B5/1071 A61B5/224 A61B5/4528 A61B5/486
European: A61B5/48S K61B5/0488 K61B5/107A K61B5/22D K61B5/45K
US: 600/409 600/546 600/587 600/595



Family:

Publication number	Publication date	Application number	Application date
US5785666 A	19980728	US19950550676	19951031
US5964719 A	19991012	US19970956540	19971023

Priority:

US19950550676 19951031 US19970956540 19971023

Probable Assignee: ERGONOMIC TECHNOLOGIES CORP

Assignee(s): (std): ERGONOMIC TECHNOLOGIES CORP

Inventor(s): (std): ROTH CYNTHIA ; NAIR CHANDRA ; MITCHELL DENNIS A ; COSTELLO KEVIN J

Title: Method for improving motor control in an individual by sensory training

Abstract: A method and apparatus for implementing a training regimen which addresses motor control problems accompanied by sensory degradation. Accordingly, the training regimen is applicable to motor control disorders associated with a variety of different causes, including traumatic injury, disease, aging and gradual "occupational" type injury. For example, in an individual suffering from repetitive strain injury (RSI), the disabling motor control problems are often accompanied by sensory problems. These sensory problems appear to be caused over time by harmful attended rapid repetitive movements resulting in undesirable changes in the somatosensory, proprioceptive and/or kinesthetic ability of the affected regions of the individual. The present invention hypothesizes that repetitive delivery of simultaneous or nearly simultaneous afferent sensory inputs, under attended conditions of high cognitive drive, results in a learning-induced integration of the representation of the individuality of otherwise differentiable parts of the subjects thereby degrading the sensory feedback loop necessary for normal motor control. What started out as a degradation of the sensory feedback capability, essential for proper motor control, eventually manifests over time as a motor control problem. Thus, motor control problems which are accompanied by sensory degradation can be alleviated by a regimen of remedial re-differentiating sensory training of the affected regions of the individual. Accordingly, the training regimen differentially stimulates two locations within the afflicted portion of the individual. Feedback from the individual indicates the degree of difficulty the individual has in sensing differentially between the two locations. The stimulation is then adapted to the individual based on the feedback. Adaptation includes increasing the distance between the two locations and/or changing the spectral or temporal characteristics of the stimuli.

Classifications:

International (IPC 8-9): A61B10/00 A61B5/103 (Advanced/Invention);

A61B10/00 (Advanced/Non-invention);

A61B10/00 A61B5/103 (Core/Invention)

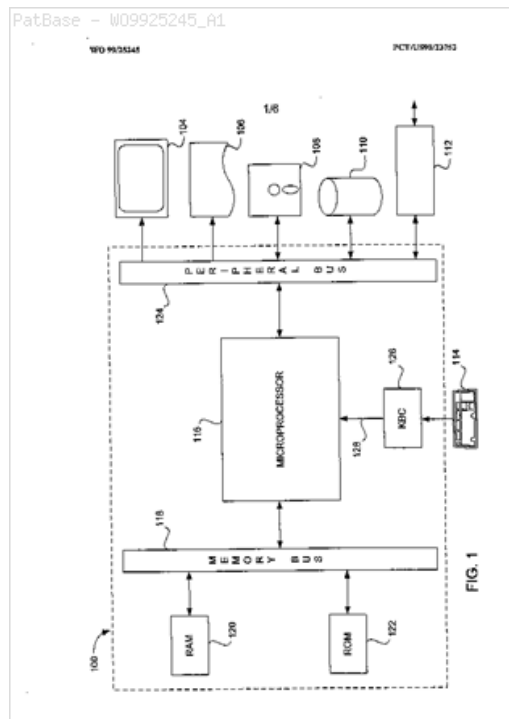
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A61B5/48E2

US: 600/552 600/557 600/587 600/595 601/23



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19970970339 19971114 WO1998US23752 19981109 US19990374227 19990813
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Probable Assignee: SCIENTIFIC LEARNING CORP

Assignee(s): (std): MERZENICH MICHAEL M ; UNIV CALIFORNIA ; SCIENTIFIC LEARNING CORP ; SCIENTIFIC LEARNING CORP ; BYL NANCY N

Assignee(s): COMERICA BANK ; JENKINS WILLIAM M ; THE UNIV OF CALIFORNIA ; OF CALIFORNIA UNIV ; UNIV OF CALIFORNIA ; WPV INC ; SCIENTIFIC LEARNING SUITE 400 1995 UNIV CORP ; UNIV

Inventor(s): (std): BYL NANCY N ; CALHOUN BARBARA M ; JENKINS WILLIAM M ; MERZENICH MICHAEL MATHIAS ; PETERSON BRET E ; WILLIAM M JENKINS ; NANCY N BYL ; NAGARAJAN SRIKANTAN ; MICHAEL M MERZENICH ; BYL NANCY ; MERZENICH MICHAEL M

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SIM AND MCBURNEY

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

Title: NOVEL MAN MACHINE INTERFACES AND APPLICATIONS

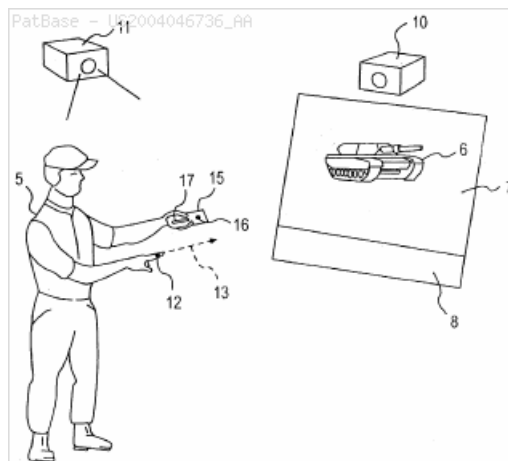
Abstract: Affordable methods and apparatus are disclosed for inputting position, attitude (orientation) or other object characteristic data to computers for the purpose of Computer Aided Design, Painting, Medicine, Teaching, Gaming, Toys, Simulations, Aids to the disabled, and internet or other experiences. 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:

International (IPC 8-9): A61B3/02 A61B5/11 A61B5/12 A61B6/00 A63B24/00 A63B71/00 A63F13/00 A63F13/02 A63F13/04 A63F13/06 A63F3/00 A63F3/02 A63F7/02 A63F9/24 B60K B60K1/00 B60K35/00 B60K37/02 B60K37/06 B60Q1/00 B60R11/02 G01C21/36 G01D1/00 G01D13/00 G01F G01F1/708 G01S5/16 G05B G05B11/01 G05B15/00 G05B19/042 G06F G06F15/00 G06F15/16 G06F17/00 G06F17/30 G06F19/00 G06F3/00 G06F3/01 G06F3/03 G06F3/033 G06F3/0354 G06F3/038 G06F3/041 G06F3/042 G06F3/043 G06F3/045 G06F3/048 G06F3/0484 G06F3/0488 G06K11/06 G06K9/00 G06M11/04 G06T17/40 G06T7/00 G08B21/00 G08B6/00 G08C21/00 G09G5/00 G09G5/08 G09G5/10 G10H1/00 G10L21/00 H04B3/36 H04N5/225 H04N5/64 H04N7/18 H04N9/31 H04Q9/00 (Advanced/Invention); A63F9/24 B60R11/00 G06F3/041 (Advanced/Non-invention); A63B71/00 A63F3/02 A63F7/02 B60K37/04 B60Q1/00 G01D1/00 G01S5/00 G05B11/01 G05B15/00 G06F15/00 G06F15/16 G06F17/00 G06F17/30 G06F19/00 G06F3/033 G06F3/041 G06F3/048 G06K9/00 G06M11/00 G09G5/00 G09G5/08 G10L21/00 H04N5/225 H04N5/64 H04N7/18 H04N9/31 (Core/Invention); A63F9/24 G06F3/041 (Core/Non-invention); B60K (Subclass/Invention)

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CPC: A63F7/027 A63F2003/00974 A63F2009/243 A63F2009/2435 A63F2009/2457 G06F3/0423 G06F2203/0381 G06F3/0426 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 A63F13/02 A63F13/04 A63F13/10 A63F2300/1043 A63F2300/1062 A63F2300/1081 A63F2300/6045 A63F2300/69 G06F3/038 G06F3/0428 G06F19/3418 G10H1/0008 G10H2220/321 B60K2350/1004 G06T2219/2016 G06T2219/2021 G06F3/0346 G06F17/5095 G06F2217/32 G05B19/0423 A47L15/0063 G01F23/292 G05B2219/23031 G05B2219/2643 G05B2219/31048 A63F2300/1093 B60K2350/2052 F24C7/082 H05B6/6435 H05B2213/04 B60K2350/1044 B60K2350/1052 B60K2350/355 Y10S482/90 Y10S482/901 B60R11/02 B60R11/0235 B60R2011/0005 B60R2011/0007 B60R2011/0012 B60R2011/0028 B60R2011/0029 B60R2011/0042 B60R2011/0094 G06F3/042 B60K37/02 B60K2350/106 B60K2350/1072 G06F3/0421 G06F3/04886 G01C21/365 B60K2350/2013 B60K2350/925 B60K2350/962 G01C21/265 G06T19/20 G06F2203/04109 G06F3/012 G06F3/014 A63F13/213 A63F13/245 A63F13/803 A63F13/428 A63F13/2145 A63F13/00 A63F2300/1075 A63F2300/1087 A63F2300/30 A63F2300/308 A63F2300/8011 G07F17/3297 G06F3/0304 G06F3/0325 G06F3/011 A63F3/00643 A63F7/0005 A63F13/06 A63F2009/0012 A63F2009/2419 A63F2009/2433 A63F2250/50 A63F2300/1068 G06F2203/04101 G01S5/16 G05G1/105 B60K2350/1016 G06F3/0425 B60K2350/102 B60K2350/104 G01C21/3664 G06F3/0312 G06F3/03545 G06F3/04847 G06F3/0488 G06F2203/04108 G06F2203/04809 G06T7/246 G06T7/593 G06T7/73 B3Y50/00 B60K35/00 B60K37/06 B60K2350/1024 B60K2350/1028 B60K2350/901 G06F3/016 G06F3/017 G06F3/0416 G06F3/04883 G16H40/63 G16H50/50 G06F19/00 **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 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 G06F3/03H2 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 L60R11/00P1M 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:** 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/E51.28S 348/E51.37S 348/E7.085 348/E70.85S 348/E9.025 348/E9.026 348/E90.25S 348/E90.26S 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 482/9 482/90 482/901 600/476 600/558 600/559 600/595 700/17 700/18 700/19 700/20 700/83 702/127 704/275 704/275S 704/E21.001 704/E21.001S 707/802 707/802S 707/E17.044 707/E17.044S 709/206 709/206S 715/702 715/702S 715/709 715/744 715/745 715/764 715/764P 715/788 715/789 715/810 715/811 715/833 715/833S 715/863 715/865



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AU2010249515 AA	20101125	AU20100249515	20100519
CN102498442 A	20120613	CN2010080028358	20100519
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Probable Assignee: GESTURE TECHNOLOGY PARTNERS LLC

Assignee(s): (std): MOTION GAMES LLC ; PRYOR TIMOTHY R ; SMITH PETER ; PRYOR MARIE C ; PRYOR TIMOTHY ; SMITH PETER H ; APPLE INC

Assignee(s): APPLE INC CUPERTINO ; GESTURE TECHNOLOGY PARTNERS LLC ; INCASA HEALTH LLC ; TACTILE FEEDBACK TECHNOLOGY LLC ; PSTP TECHNOLOGIES LLC

Inventor(s): (std): PRYOR MARIE C ; PRYOR TIMOTHY ; PRYOR TIMOTHY R ; SMITH PETER ; SMITH PETER H

Inventor(s): PRYOR TIMOTHY R TECUMSEH

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FREEHILLS PATENT ATTORNEY S; FPA PATENT ATTORNEYS PTY LTD; BARDEHLE PAGENBERG PARTNERSCHAFT MBB PATENTANWALTE RECHTSANWALTE; CALDERBANK THOMAS ROGER; LANG JOHANNES; BARTON RUSSELL GLEN; MARKS AND CLERK; STITES AND HARBISON PLLC; WARNER NORCROSS AND JUDD LLP; APPLE C O MORRISON AND FOERSTER LLP LOS ANGELES; WARNER NORCROSS AND JUDD LLP,INTELLECTUAL PROPERTY GROUP; WARNER NORCROSS AND JUDD LLP INTELLECTUAL PROPERTY GROUP; DOUGLAS E; ROSS F; HUNT JR ROSS F; JACKSON DOUGLAS E; MORRISON AND FOERSTER LLP; KUBOTA GLENN M ET AL

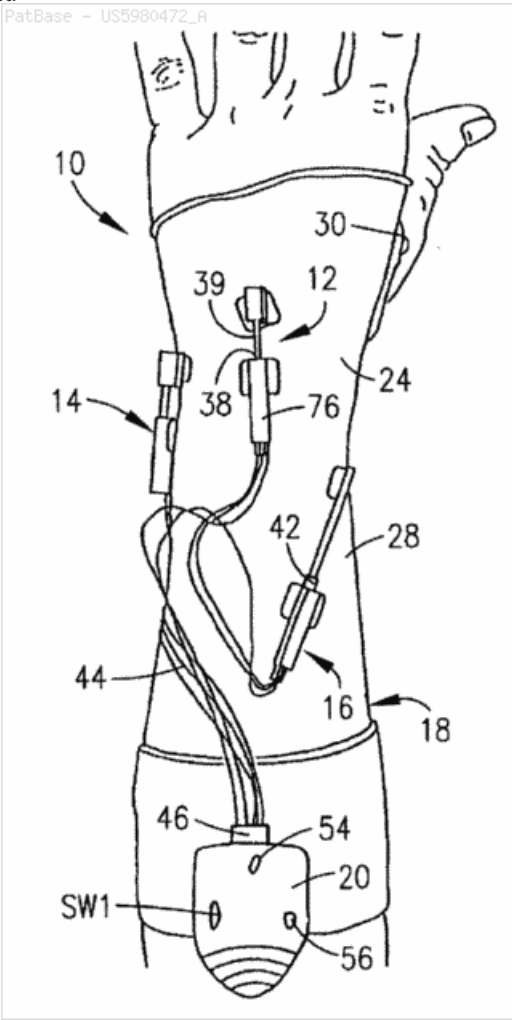
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TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: Joint movement monitoring **system**

Abstract: A preferred joint movement monitoring **system** (10) includes a carrier (18) configured for wearing by a subject about a wrist thereof and a plurality of position **sensors** (12, 14, 16) coupled with the carrier (18) for sensing various hand positions of the subject. The preferred carrier (18) is in the form of an elastic wrist band that encompasses the wrist and adjacent portions of the hand and forearm without covering any portions of the subject's fingers. The preferred **sensors** (12, 14, 16) include Hall effect **sensors** mounted to the carrier (18) on the forearm side of the wrist.

Classifications:
International (IPC 8-9): A61B5/11 (Advanced/Invention)
International (IPC 1-7): A61B5/103
CPC: A61B5/1121 A61B5/1126 A61B5/4528
European: A61B5/11S A61B5/11W A61B5/45K
US: 600/587 600/595



Family:

Publication number	Publication date	Application number	Application date
US5980472 A	19991109	US19980026834	19980220
US6334852 BA	20020101	US19990429966	19991029

Priority:

US19980026834 19980220 US19990429966 19991029

Probable Assignee: BROWNMED INC DELAWARE

Assignee(s): (std): MOTIONWATCH L L C

Assignee(s): KTEC HOLDINGS INC 214 W 6TH STREETTOPEKA KAN S SA ; MOTION WATCH LLC ; KTEC HOLDINGS INC ; KTEC HOLDINGS ; BROWN MEDICAL IND INC ; SEYL V CRAIG ; BROWNMED INC ; BROWNMED INC DELAWARE ; BI STATE I NV ; BI STATE INVESTMENT GROUP ; BI STATE INVESTMENT GROUP 1 LLC ; BI STATE INVESTMENT GROUP I LLC ; BROWN MEDICAL IND

Inventor(s): (std): SEYL V CRAIG

Title: GENE SEQUENCE VARIATIONS WITH UTILITY IN DETERMINING THE TREATMENT OF DISEASE, IN GENES RELATING TO DRUG PROCESSING

Abstract: Methods for identifying and utilizing variances in genes relating to efficacy and safety of medical therapy and other aspects of medical therapy are described, including methods for selecting an effective treatment.

Classifications:

International (IPC 8-9): A61K45/00 A61P1/00 A61P1/16 A61P11/00 A61P11/06 A61P13/02 A61P13/12 A61P15/00 A61P15/16 A61P15/18 A61P17/00 A61P17/06 A61P17/10 A61P17/14 A61P19/00 A61P19/02 A61P19/10 A61P21/00 A61P25/00 A61P25/04 A61P25/06 A61P25/08 A61P25/14 A61P25/16 A61P25/18 A61P25/22 A61P25/24 A61P25/28 A61P29/00 A61P3/04 A61P3/10 A61P35/00 A61P37/02 A61P37/06 A61P43/00 A61P5/00 A61P5/14 A61P5/18 A61P5/38 A61P7/00 A61P7/06 A61P9/00 A61P9/04 A61P9/06 A61P9/08 A61P9/10 A61P9/12 C07H21/00 C07H21/04 C07K14/00 C07K14/47 C12N15/09 C12N15/12 C12N15/52 C12P19/34 C12Q1/02 C12Q1/68 G01N33/48 G06F19/00

G06F19/22 (Advanced/Invention);
A61K45/00 A61P1/00 A61P11/00 A61P15/00 A61P17/00 A61P19/00 A61P21/00 A61P25/00 A61P29/00 A61P35/00 A61P43/00 A61P5/00 A61P7/00 A61P9/00 C07K14/705 C12N15/09 C12N9/00

C12Q1/02 (Advanced/Non-invention);
A61K45/00 A61P1/00 A61P11/00 A61P13/00 A61P15/00 A61P17/00 A61P19/00 A61P21/00 A61P25/00 A61P29/00 A61P37/00 A61P35/00 A61P37/00 A61P43/00 A61P5/00 A61P7/00 A61P9/00 C07K14/43 C12N15/09 C12P19/00 C12Q1/02 C12Q1/68 G01N33/48

G06F19/00 (Core/Invention)

International (pc 1-7): A01N57/00 A61K31/00 A61K45/00 A61P1/00
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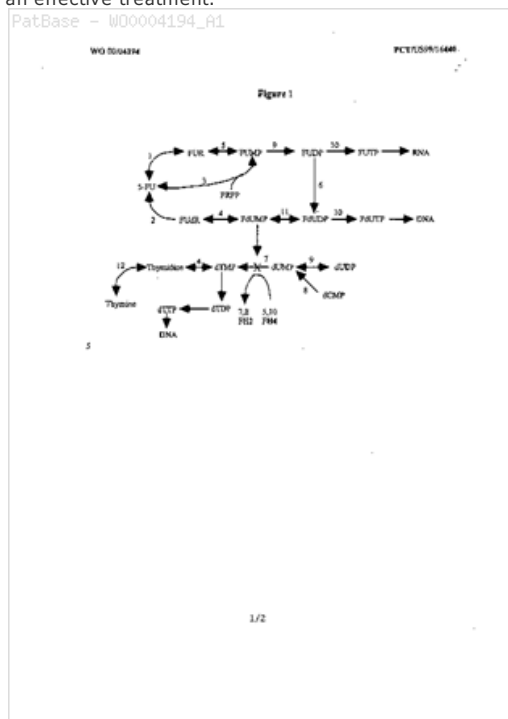
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European: C07H21/04 C07K14/715B C12Q1/68M6 C12Q1/68M6B G06F19/22 M12Q1/68E M12Q600/106 M12Q600/156 M12Q600/172

US: 43/59.12 435/252.3 435/29 435/29S 435/320.1 435/6 435/6.1 435/6.100S 435/6.11 435/6.110P 435/6.12 435/6.120P 435/6.13 435/6.14 435/6.16 435/6.160P 435/6.160S 435/6.18 435/6.180S 435/6P 435/6S 435/91.1 435/91.2 436/501 506/9 514/1 514/100 514/1P 53/62.21 53/62.31 53/62.41 530/350 530/350S 536/22.1 536/22.2 536/23.1 536/23.1 536/24.1 536/24.3 536/24.300S 536/24.31 536/24.33 536/24.33 536/25.32 536/25.320S 702/2 702/20 702/20S

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20150713384	20150515	US20150979854	20151228		

Probable Assignee: NUVELO INC

Assignee(s): (std): BODY SYNC INC ; CENTURY TECHNOLOGY INC ; NUVELO INC ; STANTON VINCENT P ; VARIAGENICS INC ; STANTON VINCENT JR ; VARIAGENICS INC A DELAWARE COR ; VARIAGENICS A DELWARE CORP ; STANTON JR VINCENT P ; ZILLMANN MARTIN

Assignee(s): VARIAGENICS INC A DELAWARE CORP ; STANTON VINCENT P JR ; SYNTHESIS MARKETING AND COMMUNICATIONS INC ; SILICON VALLEY BANK ; BODYSYNC INC

Inventor(s): (std): STANTON VINCENT JR ; STANTON VINCENT P ; STANTON VINCENT P JR ; ADAMS ROBERT MARK ; STANTON JR VINCENT P ; STEFFEN DAVID ; ZILLMANN MARTIN ; VINCENT P STANTON JR

Inventor(s): VINCENT STANTON JR ; STANTON VINCENT ; STANTON VINCENT PJR

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; FISH AND RICHARDSON PC; SHERIDAN ROSS PC

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZW

Title: MEDICAL MANIFESTATIONS-DIAGNOSIS TEMPLATES

Abstract: A plurality of word templates each of which is a transcription of the electrochemical signals and codes in a network of brain neurons encompassing a medical diagnosis and pertinent clinical manifestations and review of **systems**. Each word template comprises a first word or term describing a medical diagnosis unites with a second group of words, terms and phrases representing the clinical manifestations and review of **systems** pertinent to the medical diagnosis. Each word template further comprises a words-terms architect which is a product of an hierarchy of relevance and importance of the words and terms in the second group of words, terms and phrases to the first word and term. Consequently, the present invention includes a method of forming and producing a plurality of word templates based on aforementioned phenomena and embodiments whereby a plurality of word templates are sort and ranked and whereby a first word, term, phrase and group of words and terms are used to garner pertinent second words, terms, phrases, groups and hierarchies of words, terms and phrases in the same word template and other word templates, and vice versa.

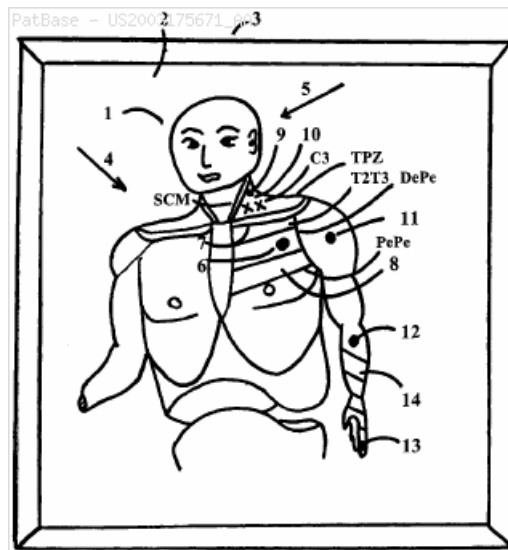
Classifications:

International (IPC 8-9): A61B5/00 G06F17/00 G06F17/20 G06F17/27 G06F17/28 G06F17/30 G06F17/40 G06F19/00 G06F3/048 G06F7/00 G06Q10/00 G06Q20/00 G06Q30/00 G06Q40/00 G06Q50/00 G06Q50/22 G06Q90/00 G06Q99/00 G09B23/28 G09F7/00 G10L15/00 G10L15/26 G10L17/00 G10L21/00 H04L12/56 H04M11/00 (Advanced/Invention); G06F17/20 G06F17/27 G06F17/28 G06F17/30 G06F17/40 G06F19/00 G06F3/048 G06F7/00 G06Q10/00 G06Q50/00 G09B23/00 G09F7/00 G10L15/00 H04M11/00 (Core/Invention)

International (IPC 1-7): G06F7/00 G07B23/28 G09B23/28
CPC: G06Q10/06375 G06Q20/102 G06Q20/14 G06Q40/12 G07F17/0092 G06Q40/00 G09F7/00 E01F9/669 G10L15/06 G10L15/285 G10L25/48 G10L2015/0633 G10L2015/223 Y02A90/22 Y02A90/26 G16H15/00 G16H50/70 G16H80/00 G09B23/28 G06F17/2735 G06F19/324 G10L15/063 G10L15/183 G10L15/19 G10L15/22 G06Q50/24 G06F19/328 G16H40/20 G16H10/20 G16H10/60 G06F19/325 G16H50/20 G06F19/00 G06Q10/00 G06Q10/10 G06Q50/22

European: E01F9/03 G06F17/27D G06F19/32C G06F19/32E G06F19/32E1 G06F19/32G G06F19/32H G06F19/34E G06F19/34J G06F19/34K G06F19/34P G06F19/36A G06Q10/00 G06Q10/06375 G06Q10/10 G06Q20/102 G06Q20/14 G06Q40/00 G06Q40/10 G06Q50/22 G06Q50/24 G07F17/00P G09B23/28 G09F7/00 G10L15/063 G10L15/19 S06F19/32C S06F19/32E1 S10L15/183 S10L15/19 S10L15/22

US: 1/1 1/1P 160/368.1 370/395.3 370/395.300P 379/93.15 379/93.150S 40/611.11 40/611.12 40/612 434/267 434/267P 434/272 434/272S 600/300 600/300S 600/301 704/1 704/1P 704/212 704/212S 704/235 704/235P 704/235S 704/246 704/246P 704/251 704/251P 704/4 704/4P 704/9 704/9P 704/E15.001 704/E15.001S 704/E15.008 704/E15.008S 704/E15.021 704/E15.021S 705/2 705/2P 705/2S 705/3 705/30 705/30P 705/30S 705/35 705/35S 705/3P 705/40 705/40S 705/50 705/50S 705/7 705/7.37 705/7.370S 705/7P 707/1 707/104.1 707/7 707/769 707/769S 707/802 707/802S 707/822 707/822S 707/999.001 707/999.001S 707/999.007 707/999.007S 707/999.104 707/999.104S 707/999.107 707/999.107S 707/E17.005 707/E17.005S 707/E17.009 707/E17.009S 707/E17.014 707/E17.014S 707/E17.044 707/E17.044S 715/704 715/704P 715/760 715/760S

**Family:**

Publication number	Publication date	Application number	Application date
US2003175671 AA	20030918	US20030353876	20030130
US2004128268 AA	20040701	US20020328993	20021226
US2006085228 AA	20060420	US20050293689	20051205
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Probable Assignee: BENJA ATHON ANUTHEP

Assignee(s): (std): BANJA ATHON ANUTHEP ; BENJA ANTHON THEDA ; BENJA ATHON ANUTHEP ; BENJA ATHON NONTAWAN ; BENJA ATHON SIRIKIT ; BENJA ATHUN THEDA ; BENJA ATHON THEDA ; SCHNABEL KURT ROBERT

Inventor(s): (std): BENJA ATHON SIRIKIT ; BENJA ANTHON THEDA ; SCHNABEL KURT ROBERT ; BENJA ATHUN THEDA ; BENJA ATHON THEDA ; BENJA ATHON NONTAWAN ; BENJA ATHON ANUTHEP ; BANJA ATHON ANUTHEP

Agent(s): ANUTHEP BENJA-ATHON; ANUTHEP BENJA ATHON; ANUTHEP BENJA ATHON MD NONTAWAN BENJA ATHON; ANUTHEP BENJA-ATHON, PAIN MANAGEMENT; ANUTHEP BENJA ATHON PAIN MANAGEMENT; ANUTHEP BENJA ATHON MD PAIN MANAGEMENT; ANUTHEP BENJA ATHON GR FLOOR; ANUTHEP BENJA ATHON MD; AUNTHEP BENJA ATHON MD; ANUTHER BENJA ATHON MD; ANUTHEP BENJA ATHON MD GROUND FLOOR; TRACY EMERY L; EMERY L

Title: Method of and apparatus for applying and distributing a charge of a particulate material onto a top surface of a substrate, such as a pizza batter

Abstract: A method of applying and distributing a charge of a particulate material onto a top surface of a substrate (80), such as a pizza batter, includes the steps of providing said charge from an overhead hopper (12); delivering said charge onto a movable vibrational surface (82) having an area exceeding the area of said substrate (80), said surface being positioned above and in registration with said substrate (80); keeping said charge on said vibrational surface within a specific area corresponding to the area of said substrate by means of an encircling guide (50) defining said specific area and having at its lower end a flexible skirt (52) for contacting and sealing against said vibrational surface (82); vibrating said vibrational surface (82) for causing said charge received on said vibrational surface (82) and kept within said specific area to be evenly and randomly distributed within said area; and transferring said charge from said vibrational surface (82) onto said substrate by moving said vibrational surface (82) away from said position above and in registration with said substrate while vibrating said vibrational surface for allowing said charge evenly and randomly distributed within said specific area of said vibrational surface to drop onto said substrate (80). An apparatus for carrying out the method is also provided.

Classifications:

International (IPC 8-9): A21C9/04 A21D13/08 (Advanced/Invention); A21C9/00 (Core/Invention)

International (IPC 1-7): A21C9/04 A21D13/08 A23L1/00 A23P1/08

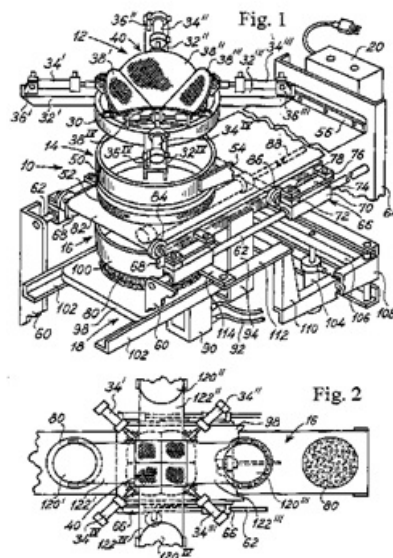
CPC: A21C9/04

European: A21C9/04

US: 118/22 118/57 426/289 426/292 99/450.1 99/494

PatBase - US2002022071_AA

Patent Application Publication Feb. 21, 2002 Sheet 1 of 4 US 2002/0022071 A1



Family:

Publication number	Publication date	Application number	Application date
CA2342959 AA	20011004	CA20012342959	20010404
EP1145635 A1	20011017	EP20000610032	20000404
US2002022071 AA	20020221	US20010826375	20010403
US6531170 BB	20030311	US20010826375	20010403

Priority:

EP20000610032 20000404 CA20012342959 20010404

Probable Assignee: CABINPLANT INT A S

Assignee(s): (std): CABINPLANT INT A S ; CABINPLANT INT AS ; CABINPLANT INTERNAT A S ; HANSEN HENNING INGEMANN

Assignee(s): C INPLANT INTIONAL AB ; CABINPLANT INT ; CABINPLANT INTERNATIONAL A S

Inventor(s): (std): HANSEN HENNING INGEMANN

Agent(s): OGILVY RENAULT LLP SENCRL SRL

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: Therapeutic apparatus

Abstract: A thermal apparatus includes a wrap adapted to be secured to the body surface of a user. At least one temperature **sensor** is mounted to the wrap to measure an actual temperature of the body surface, and at least one thermoelectric device is mounted to the wrap to selectively deliver heat to and remove heat from the body surface. The thermal apparatus further includes a control unit mountable to the wrap. The control unit receives the actual temperature of the body surface from the temperature **sensor** and communicates with the thermoelectric device to operate the thermoelectric device as one of a heater and a cooler, thereby achieving a desired temperature of the body surface.

Classifications:

International (IPC 8-9): A61F7/00 A61F7/02 (Advanced/Invention);

A61B17/00 (Advanced/Non-invention);

A61F7/00 A61F7/02 (Core/Invention);

A61B17/00 (Core/Non-invention)

International (IPC 1-7): A61F7/00

CPC: A61F7/007 A61B2017/00039 A61F2007/0001 A61F2007/0075

A61F2007/0091 A61F2007/0093 A61F2007/0094 A61F2007/0095

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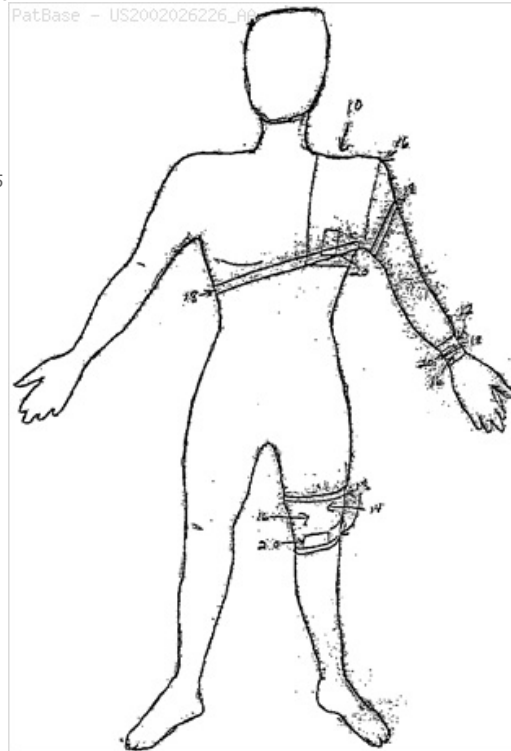
A61N1/36021

European: A61F7/00E A61N1/32 K61B17/00C1E K61F7/00A K61F7/00E2

K61F7/00N K61F7/00P K61F7/00R K61F7/00T K61F7/02M K61N1/04E11

K61N1/32D K61N1/32E K61N1/36E2

US: 219/528 606/112 607/108 62/3.5



Family:

Publication number	Publication date	Application number	Application date
US2002026226 AA	20020228	US20010769727	20010126
US6840955 BB	20050111	US20010769727	20010126

Priority:

US20000177715P 20000127 US20000205564P 20000522 US20010769727 20010126

Probable Assignee:

EIN ROBERT J

Assignee(s):

EIN ROBERT J

Inventor(s): (std):

EIN ROBERT J

Title: NOVEL MAN MACHINE INTERFACES AND APPLICATIONS

Abstract: The invention is aimed at providing affordable methods and apparatus for inputting position, attitude(orientation) or other object characteristic data to computers for the purpose of Computer Aided learning, Teaching, Gaming, Toys, Simulations, Aids to the disabled, Word Processing and other applications. 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 relation ships of portions of one or more datums with respect to a plurality of cameras or a single camera processed by a conventional PC.

Classifications:

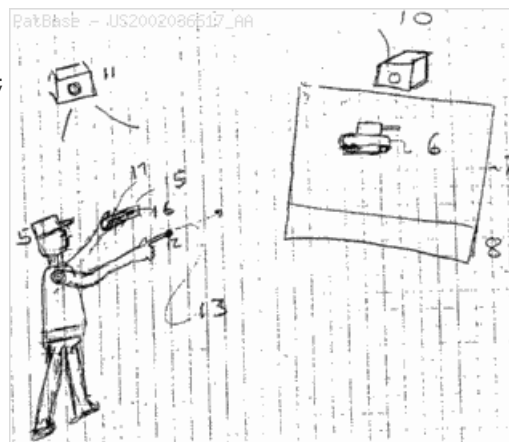
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International (IPC 1-7): G09G5/00

CPC: G06F3/0386 G06F17/00 A63D2300/1087 A63F2300/1012 G06F3/011 G06F3/0325 G06F3/042 G06F3/0425 G06F2203/0331 G06K9/00335 A63F2300/1087 G06F3/0304 G06F3/017

European: G06F3/00B8 G06F3/00B8G G06F3/01B G06F3/01G G06F3/03322 G06F3/038L G06F3/03H6 G06F3/042 G06F3/042C G06K9/00G K63F300/10B K63F300/10X S06F203/0331

US: 340/407.2 341/22 345/156 345/156P 345/156S 345/157 345/158 345/158P 345/168 345/168P 345/419 345/719 345/863 348/155 348/77 348/77P 348/E7.085 348/E70.85S 400/719 463/32 463/32P 463/37 463/37P 463/37S 701/1 701/36 715/719 715/863



Family:

Publication number	Publication date	Application number	Application date
US2002036617 AA	20020328	US19980138339	19980821
US2005012720 AA	20050120	US20040866191	20040614
US2006033713 AA	20060216	US20050186898	20050722
US2010134612 AA	20100603	US20100700055	20100204
US2011059798 AA	20110310	US20100941304	20101108
US2012040755 AA	20120216	US20110267044	20111006
US2013169527 AA	20130704	US20120714693	20121214
US2013169535 AA	20130704	US20120714748	20121214
US2013179034 AA	20130711	US20120714727	20121214
US2013222252 AA	20130829	US20130850577	20130326
US2013249791 AA	20130926	US20130850561	20130326
US2014313125 AA	20141023	US20140275132	20140512
US6750848 BA	20040615	US19990433297	19991103
US7843429 BB	20101130	US20050186898	20050722
US8068095 BB	20111129	US20100941304	20101108
US8553079 BB	20131008	US20120714748	20121214
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US8723801 BB	20140513	US20130850577	20130326
US8736548 BB	20140527	US20130850561	20130326
US8760398 BB	20140624	US20120714693	20121214
US8847887 BB	20140930	US20120714727	20121214

Priority:

US19970056639P	19970822	US19970059561P	19970919	US19980138339	19980821
US19980139339	19980821	US19980107652P	19981109	US19990433297	19991103
US20020138339	20020506	US20040866191	20040614	US20050186898	20050722
US20100700055	20100204	US20100941304	20101108	US20110267044	20111006
US20120714693	20121214	US20120714727	20121214	US20120714748	20121214
US20130850577	20130326	US20130850561	20130326	US20140275132	20140512

Probable Assignee: GESTURE TECHNOLOGY PARTNERS LLC

Assignee(s): (std): GESTURE TECHNOLOGY PARTNERS LLC ; MOTION GAMES LLC ; PRYOR TIMOTHY ; PRYOR TIMOTHY R ; SMITH PETER H

Assignee(s): PSTP TECHNOLOGIES LLC

Inventor(s): (std): PRYOR TIMOTHY R ; SMITH PETER H ; PRYOR TIMOTHY

Agent(s): STITES AND HARBISON PLLC; DOUGLAS E; WARNER NORCROSS AND JUDD LLP

Title: IMPLANTABLE TELEMETRIC MEDICAL **SENSOR** AND METHOD

Abstract: A telemetric medical **sensor** for implantation in a patient's body for measuring a parameter therein is provided. The **sensor** comprises a housing and a membrane at one end of the housing. The membrane is deformable in response to the parameter being measured. A microchip is positioned within the housing and operatively communicates with the membrane for transmitting a digital signal indicative of the parameter. The microchip comprises an array of photoelectric cells for use with an LED for transmitting light at the photoelectric cells. A shutter is connected to the membrane and moveable between the photoelectric cells and the LED in response to deforming of the membrane.

Classifications:

International (IPC 8-9): A61B A61B5/00 A61B5/04 A61B5/0402 A61B5/0408 A61B5/0478 A61B5/07 A61N1/365 G01D G01D5/34 G01D5/347 G01L G01L9/00 G01N33/49 G08C17/00 (Advanced/Invention); A61B5/00 A61B5/04 A61B5/0402 A61B5/0408 A61B5/07 A61N1/365 (Advanced/Non-invention); A61B5/00 A61B5/04 A61B5/0402 A61B5/0408 A61B5/0476 A61N1/365 G01D5/26 G01L9/00 (Core/Invention); A61B5/07 (Core/Non-invention)

International (IPC 1-7): A61B5/00 A61B5/02 A61B5/0215 A61B5/04 A61B5/0402 A61B5/0408 A61B5/0478 A61N1/365 G01D5/34 G01D5/347 G01L9/00 G01N33/49 G08C17/00

CPC: Y10S128/903 A61B5/6882 A61B5/0031 A61B5/076 A61B2560/0219

European: A61B5/00B8 A61B5/00B9 A61B5/68D3D K61B5/07D K61B560/02B4B

US: 128/899 128/903 600/301 600/485 600/486 600/486P 600/488 600/488S 600/561

PatBase - US2002077553_AA

Patent Application Publication Jun. 30, 2002 Sheet 1 of 11 US 2002/077553 A1

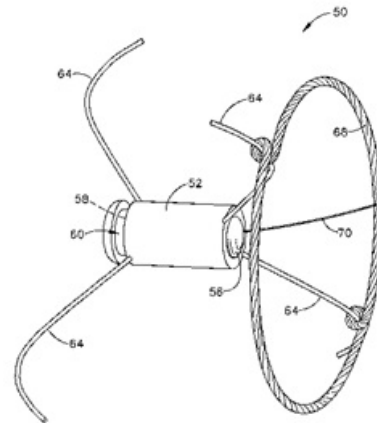


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
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AU200197072 A1	20020620	AU20010097072	20011205
AU200197072 A5	20020620	AU20010097072D	20011205
AU778898 B2	20041223	AU20010097072	20011205
CA2365216 AA	20020618	CA20012365216	20011214
DE60110024 D1	20050519	DE20016010024	20011217
DE60110024 T2	20060209	DE20016010024T	20011217
DK1216653 T3	20050627	DK20010310521T	20011217
EP1216653 A1	20020626	EP20010310521	20011217
EP1216653 B1	20050413	EP20010310521	20011217
ES2238396 T3	20050901	ES20010310521T	20011217
HK1045636 A1	20051007	HK20020107243	20021002
HK1045636 B	20051007	HK20020107243	20021002
IL146961 A0	20020814	IL20010146961	20011206
IL146961 A1	20060611	IL20010146961	20011206
JP2002345765 A2	20021203	JP20010383345	20011217
JP3881229 B2	20070214	JP20010383345	20011217
KR100860946 B1	20080930	KR20010079931	20011217
KR20020048892 A	20020624	KR20010079931	20011217
PT1216653 T	20050729	PT20010310521T	20011217
US2002077553 AA	20020620	US20000739053	20001218
US6638231 BB	20031028	US20000739053	20001218

Priority:

US20000739053 20001218 CA20012365216 20011214 EP20010310521 20011217

Probable Assignee: BIOSENSE INC

Assignee(s): (std): BIOSENSE WEBSTER INC ; BIOSENSE INC

Assignee(s): BIOSENSE INC ONE JOHNSON AND JOHNSON PLAZA NEW BRUNSWICK NEW JERSEY 08933 ; BEN HAIM SHLOMO ; CAPEZZUTO LOUIS J ; GOVARI ASSAF ; ZILBERSTEIN JOEL ; ZILBERTSTEIN JOEL

Inventor(s): (std): ASSAF GOVARI ; JOEL ZILBERSTEIN ; JOEL ZILBERSTIEN ; LOUIS J CAPEZZUTO ; SHLOMO BEN HAIM ; ZILBERSTIEN JOEL ; ZILBERTSTEIN JOEL ; ZILBERSTEIN JOEL ; GOVARI ASSAF ; CAPEZZUTO LOUIS J ; BEN HAIM SHLOMO

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; OGILVY RENAULT LLP SENCRL SRL; CHINA PATENT AGENT HK LTD 22 F GREAT EAGLE CENTRE 23 HARBOUR ROAD WANCHAI; DR SHLOMO COHEN AND CO; D KLIGLER IP SERVICES LTD

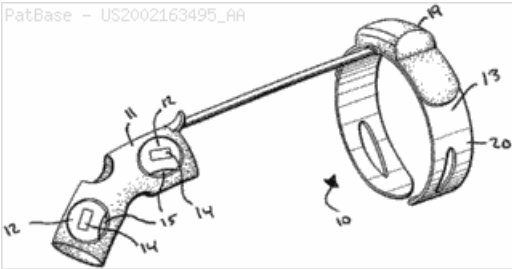
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Title: MULTI-FUNCTIONAL ERGONOMIC INTERFACE

Abstract: A wearable control apparatus is provided for implementing desired user commands on an electronic device. The apparatus comprises a mounting frame for attaching to one or more of the user's fingers, various **sensors** for generating a command signal in response to user initiated input, and a physical link layer for performing processing on the command signals generated by the **sensors** and transmitting such processed signals to the electronic device to allow for control and navigation of such device. Preferably, the mounting frame is biometrically shaped to be ergonomically worn on the user's index finger or embedded in a "smart-glove", such that the wearer's thumb can manipulate the **sensors** with minimal physical movement. The control apparatus can interface with the electronic device through a wire based or wireless connection, with an optional antenna for transmitting signals and power supply preferably attached to a user's wrist to maximize ergonomics and the range of use of the invention.

Classifications:

International (IPC 8-9): G06F3/00 G06F3/01
G06F3/033 (Advanced/Invention)
International (IPC 1-7): G06F3/00 G06K11/18 G09G5/00 G09G5/08
CPC: G06F3/014 G06F3/033 G06F2203/0331
European: G06F3/00B8H G06F3/01B6 G06F3/033 G06F3/033Z8
S06F203/0331
US: 345/156 345/156P



Family:

Publication number	Publication date	Application number	Application date
AU2002303558 AA	20021111	AU20020303558	20020502
US2002163495 AA	20021107	US20010847083	20010502
WO02088918 A2	20021107	WO2002US13645	20020502
WO02088918 A3	20040708	WO2002US13645	20020502

Priority:

US20010847083 20010502 US20010847083 20010502 WO2002US13645 20020502

Probable Assignee: MIDWEST RESEARCH INST

Assignee(s): (std): MIDWEST RES INST ; MIDWEST RESEARCH INST

Assignee(s): MIDWEST RESEARCH INSTITUTE ; DOYNOV PLAMEN

Inventor(s): (std): DOYNOV PLAMEN

Inventor(s): PLAMEN DOYNOV

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

Title: RESONANT MUSCLE STIMULATOR

Abstract: A method and apparatus generate resonant sequences having pulses optimally spaced and configured to realize uniform contractions in a musculature. Namely, each subsequent pulse maintains tension within sarcomeres of the musculature as the resonant sequence propagates inwardly to progressively stimulate the entirety of the musculature. Variation in the width, spacing, polarity and/or amplitude of the pulses comprising the resonant sequence further overcomes accommodation and nutritional depletion while minimizing discomfort.

Classifications:

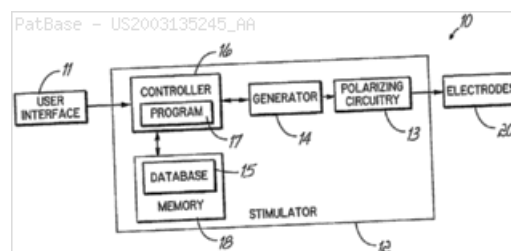
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A61N1/36 (Core/Invention)

International (IPC 1-7): A61N1/18

CPC: A61N1/36021 A61N1/36003 A61N1/36014

European: A61N1/36 A61N1/36E2 A61N1/36E4

US: 473/300 600/388 600/389 607/2 607/48 607/48P 607/50 607/72 607/77

**Family:**

Publication number	Publication date	Application number	Application date
US2003135245 AA	20030717	US20020047745	20020115
US2004236386 AA	20041125	US20040789861	20040227
US2004243196 AA	20041202	US20040803134	20040317
US2010016921 AA	20100121	US20090511106	20090729
US7035691 BB	20060425	US20020047745	20020115
US7254447 BB	20070807	US20040803134	20040317
US7593775 BB	20090922	US20040789861	20040227
US8315711 BB	20121120	US20090511106	20090729

Priority:

US20020047745 20020115 US20040789861 20040227 US20040803134 20040317
US20090511106 20090729

Probable Assignee: THERAPEUTIC INNOVATIONS INC

Assignee(s): (std): BRUCE DOUGLAS ROWE ; CAMPOS JAMES M ; ROWE BRUCE D ; THERAPEUTIC INNOVATIONS ;
THERAPEUTIC INNOVATIONS INC

Inventor(s): (std): CAMPOS JAMES M ; ROWE BRUCE D

Agent(s): DOUGLAS A SCHOLER; WOOD HERRON AND EVANS LLP; DOUGLAS A

Title: JOINT / TISSUE INFLAMMATION THERAPY AND MONITORING DEVICE(S) JITMON DEVICE

Abstract: A device is provided, in direct skin contact, surrounding an injured area for the treatment, reduction of joint inflammation, edema and excitation of neural and muscular stimulation associated with human and mammal tissues. This therapeutic light source includes a multiplicity of light emitting diodes (LED's) found in the ranges of 350 nm to 1000+ nm and fiber optic connections. A neoprene type material or other non-allergenic material will be used to set the LED's and fiber optics in layers consisting of contact with the skin to few centimeters from the skin tissue. Distance will vary from contact or near contact with devices to several millimeters of separation. Each LED array will be independently controlled allowing for optimal modulation of light frequencies and wavelengths. Technology will be integrated allowing for biomedical feedback of tissue temperature and other statistical information. A low voltage, portable power supply, will be integrated into the device as well as an analog/digital, input/output connection device. The design will be created for continuous wear, flexibility and comfort.

Classifications:

International (IPC 8-9): A61B1/00 A61B18/02 A61B18/08 A61B18/18 A61B18/20 A61B19/00 A61B5/05 A61L2/00 A61L2/08 A61N5/06 B01J23/38 B32B5/02 C09K3/00 C12M1/34 C12Q1/68 C12Q1/70 G01N21/55 G01N21/64 G01N33/53 G01N33/537 G01N33/542 G01N33/543 G01N33/551 G01N33/553 H01M8/04 H01M8/10 (Advanced/Invention); A61B18/20 A61N1/40 C12Q1/68 H01M8/24 (Advanced/Non-invention); A61B1/00 A61B18/00 A61B18/04 A61B18/18 A61B18/20 A61B5/05 A61L2/00 A61L2/08 A61N5/06 B01J23/38 B32B5/02 C09K3/00 C12M1/34 C12Q1/68 C12Q1/70 G01N21/55 G01N21/64 G01N33/53 G01N33/536 G01N33/543 G01N33/551 H01M8/04 H01M8/10 (Core/Invention); A61B18/20 A61N1/40 C12Q1/68 H01M8/24 (Core/Non-invention)

International (IPC 1-7): A61B18/18 A61B18/20 A61L2/08 A61N1/00 A61N1/30 C12M1/34 C12Q1/68 C12Q1/70 G01N33/53 G01N33/537 G01N33/543 H01M8/04

CPC: A61Q9/04 A61B18/203 A61B2018/0047 A61K8/0241 A61K8/72 A61K2800/413 A61K2800/624 A61K2800/81 A61N5/062 A61Q1/145 A61Q19/02 A61L2/082 A61L2/084 A61B18/02 A61B18/08 A61B18/20 A61B2018/0212 A61L2/0011 A61L2/0088 A61N1/406 A61N5/00 Y10S436/805 C08K9/10 C08K2003/2241 C09D5/084 A61N5/0613 A61N2005/0627 A61N5/0616 A61N2005/063 A61N2005/0645 A61N2005/0647 A61N2005/0652 A61N2005/0663 A61L2/08 A61L2/14 A61L2/232 B01L3/00 B82Y30/00 Y10T428/2982 Y10T428/2991 A61B2018/00791 A61N2005/0667 H01M8/04029 H01M8/04156 G01N21/6428 B82Y5/00 B82Y10/00 B82Y20/00 C12Q1/6834 C12Q1/6837 G01N21/6445 G01N21/6456 G01N21/648 G01N33/542 G01N33/54373 G01N2021/6417 G01N2021/6432 C09D7/62 H01M8/04302 H01M8/0258 H01M8/04303 H01M8/04223 H01M8/241

European: A61B18/02 A61B18/08 A61B18/20H A61K8/02N A61K8/72 A61L2/00P2 A61L2/00P4A A61L2/08 A61L2/08D A61L2/08F A61L2/14 A61L2/232 A61N5/00 A61N5/06C2 A61N5/06C8 A61Q1/14B A61Q19/02 A61Q9/04 B82Y10/00 B82Y20/00 B82Y30/00 B82Y5/00 G01N21/64H G01N21/64L G01N21/64P4 G01N21/64P8 G01N33/542 G01N33/543K2 H01M8/04C8 K61B18/00F8B K61B18/02C K61B18/20 K61K800/413 K61K800/624 K61K800/81 K61N1/40T2 K61N5/06F K61N5/06S6W K61N5/06S6W2 K61N5/06T2A K61N5/06W6A L01L3/00 M12Q1/68B10 M12Q1/68B10A S01N21/64G S01N21/64H4 T01M8/04B4 T01M8/04C2E2 T01M8/24B2 Y02E60/50

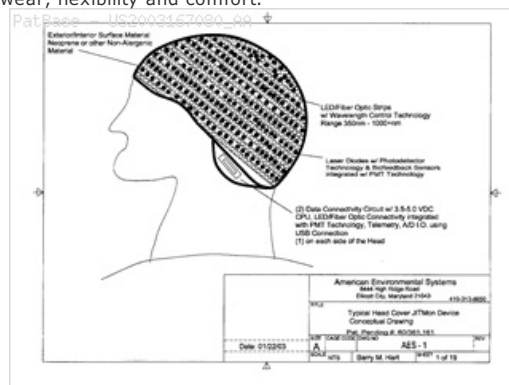
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Family:

Publication number	Publication date	Application number	Application date
DE112004001626 T5	20060713	DE200411001626	20040903
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Priority:

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Probable Assignee: AMERICAN ENVIRONMENTAL SYSTEMS INC

Assignee(s): (std): AMERICAN ENVIRONMENTAL SYSTEMS ; BREault RICHARD D ; HAGANS PATRICK L ; HART BARRY M ; AMERICAN ENVIRONMENTAL SYSTEMS INC ; AMERICAL ENVIRONMENTAL SYSTEMS ; AMERICAN ENVIRONMENTAL SYSTEM ; HART BARRY MICHAEL ; UTC FUEL CELLS LLC ; MALAK HENRYK

Assignee(s): UNITED TECHNOLOGIES CORP ; UTC POWER CORP ; SPR ADVANCED TECHNOLOGIES INC ; US PATENT AND TRADEMARK OFFICE ; AMERICAN ENVIRONMENTAL SYSTEM INC ; AMERICAL ENVIRONMENTAL SYSTEMS INC ; BARRY HART M ; BALLARD POWER SYSTEMS INC ; AUDI AG

Inventor(s): (std): BOGDANOV VALERY ; BREault RICHARD D ; HAGANS PATRICK L ; HART BARRY M ; MALAK HENRYK ; HART BARRY MICHAEL ; BARRY HART M

Inventor(s): HAGANS PATRICK ; BREault RICHARD ; BARRY HART

Agent(s): STEPHEN E REVIS; HENRYK MALAK; ARMSTRONG KRATZ QUINTOS , HANSON AND BROOKS LLP; ARMSTRONG KRATZ QUINTOS HANSON AND BROOKS LLP; H MALAK; STEPHEN E

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 KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: VIRTUAL WORKSTATION

Abstract: In accordance with the present invention there is provided devices and methods for controlling a microprocessor controlled device in a virtual environment through the use of at least one **sensor** disposed at least one user's finger and a scanner, said **sensor** and scanner being utilized to input position data, the method comprising the steps of: loading an operating **system** in a computing environment; displaying a virtual keyboard and a virtual pointing device on a display device; initializing coordinates defining individual keys of said keyboard; initializing coordinates defining a location of said pointing device in relation to the keyboard; monitoring the position of at least one **sensor** disposed on a user's finger; determining if **sensor** movement correlates to depression of a key on the keyboard and providing feedback to the user to indicate that a key was depressed on the keyboard; transmitting data correlating to the depression of the key; and returning to the monitoring step.

Classifications:

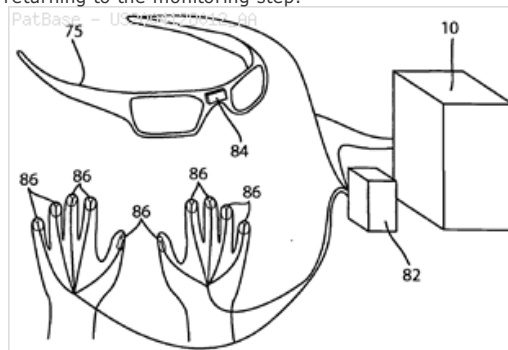
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International (IPC 1-7): G05B15/00 G06F19/00 G09G5/00 H03K17/94

CPC: G06F3/011 G06F3/014 G06F17/3002

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Priority:

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Probable Assignee: INTELLIGENTEK CORP

Assignee(s): (std): INTELLIGENTEK CORP ; LIN JULIUS ; LIN JULIUS J ; LIN JULIUS J Y

Assignee(s): TSAI GRACE

Inventor(s): (std): LIN JULIUS ; LIN JULIUS J Y ; LIN JULIUS J

Inventor(s): JULIUS LIN ; LIN JULIUS JY

Agent(s): AGNES WONG AND CO; ROBERT E KREBS; TROXELL LAW OFFICE PLLC, SUITE 1404; TROXELL LAW OFFICE PLLC SUITE 1404; DORSEY AND WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT; DORSEY AND WHITNEY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE 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: STYPTIC DEVICE

Abstract: A styptic device for hemostatically sealing a percutaneous vascular puncture formed in a body vessel and located at a target anatomical area of an intended patient includes a base component positionable substantially adjacent the target anatomical site. The device also includes a mounting component coupled to the base component for mounting the base component on the intended patient in a substantially adjacent relationship relative to the target anatomical site. The device further includes a compressing component defining a compressing surface for exerting a compressing pressure on the target anatomical site. The compressing component is operatively coupled to the base component so as to be movable relative to the latter between a compressing configuration wherein the compressing surface exerts the compressing force on the target anatomical site and a retracted configuration wherein the compressing surface is spaced from the target anatomical site.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/132 (Advanced/Invention);

A61B17/00 A61B17/12 (Core/Invention)

International (IPC 1-7): A61B17/00

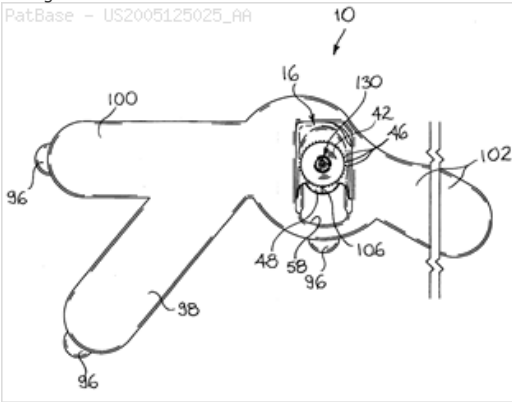
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European: A61B17/00P A61B17/132G2 K61B17/00C1 K61B17/00P11J

K61B17/00P7

US: 606/157 606/201



Family:

Publication number	Publication date	Application number	Application date
US2005125025 AA	20050609	US20040005290	20041206

Priority:

US20030526918P 20031205 US20040005290 20041206

Probable Assignee:

RIOUX MARCEL

Assignee(s):

RIOUX MARCEL

Inventor(s): (std):

RIOUX MARCEL

Agent(s):

LOUIS TESSIER

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 A61B5/0402 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 A63B21/045 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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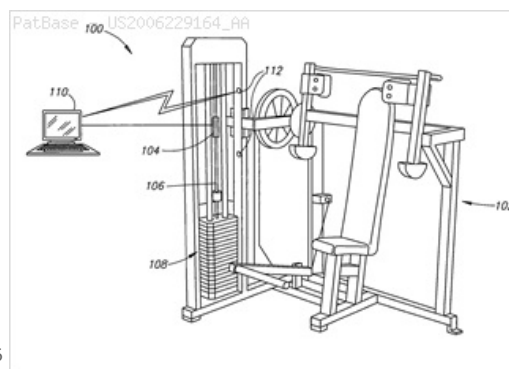
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Family:

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

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

Agent(s): MCCARTHY TETRAULT LLP; OGILVY RENAULT LLP SENCRL SRL; VAN WESTENBRUGGE ANDRIES; KORENBERG ALEXANDER TAL; DORSCHNER DAVID; DENNEMEYER AND ASSOCIATES SA; WOLF BLOCK SCHORR AND SOLIS-COHEN LLP; WOLF BLOCK SCHORR AND SOLIS COHEN 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 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