

Nicolas Vargas

Search history

Search PN=(WO2017105976) (Results 1)

1:

Search 2: [SP]: 1. a method for detecting the onset of drowsiness in an individual, comprising: receiving heart rate (hr) information associated with the individual over time, the hr information including heart rate variability (hrv) information extracting a plurality of different hrv-related features from the hr information, the extracted different hrv-related features indicative of individuals transitioning from a wakeful state to a drowsy state combining the extracted different hrv-related features to produce a drowsiness detection input inputting the drowsiness detection input into an artificial neural network (ann) classifier that has been trained to distinguish between the wakeful state and the drowsy state of individuals based at least on the different hrv-related features determining, based at least on an output of the ann classifier, whether the individual is exhibiting an onset of drowsiness and based at least on determining that the individual is exhibiting an onset of drowsiness, initiating a drowsiness onset warning. 2. a computer-readable storage medium having computer-executable instructions stored thereon that, based on execution by at least one processing system associated with at least one computing device, configure the at least one processing system to: receive heart rate (hr) information associated with an individual over time, the hr information including heart rate variability (hrv) information extract a plurality of different hrv-related features from the hr information, the extracted different hrv-related features indicative of individuals transitioning from a wakeful state to a drowsy state combine the extracted different hrv-related features to produce a drowsiness detection input input the drowsiness detection input into an artificial neural network (ann) classifier that has been trained to distinguish between the wakeful state and the drowsy state of individuals based at least on the different hrv-related features determine, based at least on an output of the ann classifier, whether the individual is exhibiting an onset of drowsiness and based at least on determining that the individual is exhibiting an onset of drowsiness, initiate a drowsiness onset warning. 3. a computing system for detecting the onset of drowsiness in an individual, comprising: one or more heart rate (hr) sensors configured to capture hr information of the individual over time, the hr information including heart rate variability (hrv) information and computer-executable instructions that, based on execution by at least one processing system associated with the computing system, configure the at least one processing system to: receive the hr information from the one or more hr sensors extract a plurality of different hrv-related features from the hr information, the extracted different hrv-related features indicative of individuals transitioning from a wakeful state to a drowsy state combine the extracted different hrv-related features to produce a drowsiness detection input input the drowsiness detection input into an artificial neural network (ann) classifier that has been trained to distinguish between the wakeful state and the drowsy state of individuals based at least on the different hrv-related features determine, based at least on an output of the ann classifier, whether the individual is exhibiting an onset of drowsiness and based at least on determining that the individual is exhibiting an onset of drowsiness, initiate a drowsiness onset warning. 4. the computing system of claim 3, wherein the hr information comprises a raw hr signal captured by the one or more hr sensors, and wherein the instruction for extracting the plurality of different hrv features from the hr information, comprises first computing a hrv signal from the raw hr signal. 5. the computing system of claim 3, wherein the one or more hr sensors comprises a computing device which computes a hrv signal from a raw hr signal captured by the hr sensor or sensors, and wherein the hr information comprises the hrv signal. 6. the computing system of claim 3, wherein the one or more hr sensors and the at least one processing system are resident in a unified drowsiness onset detection device. 7. the computing system of claim 6, wherein the drowsiness onset detection device is either a wearable device worn on the person of said individual, or a mobile device carried by said individual. 8. the computing system of claim 3, wherein the one or more hr sensors are resident in a wearable device worn on the person of said individual, and the at least one processing system are resident in a mobile device carried by said individual, and wherein the wearable device is in wireless communication with the mobile device. 9. the computing system of claim 8, wherein the hr information comprises a raw hr signal captured by the one or more hr sensors which is transmitted to said mobile device carried by the individual. 10. the computing system of claim 8, wherein the hr information comprises a raw hr signal captured by the one or more hr sensors, and wherein the one or more hr sensors comprises a computing device which computes a hrv signal from the raw hr signal, said hrv signal being transmitted to said mobile device carried by the individual. 11. the computing system of claim 3, further comprising a segmenting instruction that is executed before the execution of the instruction for extracting the plurality of different hrv-related features from the hr information, said segmenting instruction segmenting the hr information received from the one or more hr sensors into a sequence of prescribed-length segments whenever the received hr information is in the form of a hrv signal, and said segmenting instruction computing a hrv signal from the received hr information whenever the received hr information is not in the form of a hrv signal before segmenting the hrv signal into the sequence of prescribed-length segments, and wherein the instructions for extracting the plurality of different hrv-related features from the hr information, combining the extracted different hrv-related features, inputting the drowsiness detection input into the ann classifier, determining based at least on the output of the ann classifier if the individual is exhibiting an onset of drowsiness, and based at least on determining that the individual is exhibiting an onset of drowsiness, initiating the drowsiness onset warning, are executed on each of the hrv signal segments as they are created. 12. the computing system of claim 11, wherein the prescribed-length segments of the hrv signal are each two minutes in length and represent a rolling window such that there is a prescribed offset time between each segment. 13. the computing system of claim 12, wherein each two minute long hrv signal segment represents approximately 120 heart rate variation values, and wherein the segmenting instruction further comprises up-sampling each hrv signal segment to approximately 840 samples heart rate variation values using curve fitting techniques. 14. the computing system of claim 11, wherein the instruction for extracting the plurality of different hrv-related features from each hrv signal segment comprises extracting the plurality of different hrv-related features using a discrete fast fourier transform (dfft) and a discrete wavelet transform (dwt). 15. the computing system of claim 14, wherein the dfft is used to compute a ratio of the power of the low frequency components of the hrv signal segment to the power of the high frequency (hf) components of the hrv signal segment as an extracted feature, and wherein the dwt is used to compute from an 8-level decomposition of the hrv segment the d1 through d8 entropy coefficients, a8 entropy coefficient and the mean of the a1 through a8 entropy coefficients as extracted features. 16. the computing system of claim 3, wherein the instruction for initiating the drowsiness onset warning, comprises initiating a wake-up call to the individual in the form of a message that is displayed on a display screen that is viewable by the individual. 17. the computing system of claim 16, wherein the message comprises at least one of text, or images, or flashing images that appear as a flashing light on the display screen. 18. the computing system of claim 3, wherein the instruction for initiating the drowsiness onset warning, comprises initiating a wake-up call to the individual in the form of an audible alert that is played over speakers which are within a hearing range of the individual. 19. the computing system of claim 3, wherein the instruction for initiating the drowsiness onset warning, comprises initiating a wake-up call to the individual in the form of a haptic alert that can be felt by the individual. 20. the computing system of claim 3, wherein the instruction for initiating the drowsiness onset warning, comprises transmitting a message to a third party requesting the third party to warn the individual. (Results 0)

Search 3: [SP]: drowsiness onset detection drowsiness onset detection implementations are presented that predict when a person transitions from a state of wakefulness to a state of drowsiness based on heart rate information. appropriate action is then taken to stimulate the person to a state of wakefulness or notify other people of their state (with respect to drowsiness/alertness). this generally involves capturing a person's heart rate information over time using one or more heart rate (hr) sensors and then computing a heart-rate variability (hrv) signal from the captured heart rate information. the hrv signal is analyzed to extract features that are indicative of an individual's transition from a wakeful state to a drowsy state. the extracted features are input into an artificial neural net (ann) that has been trained using the same features to identify when an individual makes the aforementioned transition to drowsiness. whenever an onset of drowsiness is detected, a warning is initiated. (Results 15)

Search 3 and (mobile or portable) (Results 9)

4:

Search 4 and pd<20151218 (Results 6)

5:

Search FT=(heart rate and sensor) and PN=(US2014276090) (Results 1)

6:

Search 7: [SP]: 1. a method for optically monitoring a driver of a vehicle, comprising: illuminating a portion of the driver with electromagnetic radiation in an infrared portion of the electromagnetic spectrum using at least one illumination device obtaining images of the illuminated driver using at least one image obtaining device analyzing the images to derive a measure of flow of blood in at least one blood vessel, capillary and vein in the face of the occupant and analyzing the blood flow over time to determine whether the driver has lost the ability to continue to control the vehicle, the loss of ability to continue to control the vehicle arising from the driver becoming drowsy, falling asleep or otherwise being incapable of controlling the vehicle after initially having been awake or otherwise capable of controlling the vehicle. 2. the method of claim 1, further comprising taking action to effect a change in the operation of the vehicle upon a determination that the driver has lost the ability to continue to control the vehicle. 3. the method of claim 1, further comprising requiring action by the driver to indicate regaining of

the ability to control movement of the vehicle after a determination that the driver has lost the ability to continue to control the vehicle has been made. 4. the method of claim 1, further comprising: notifying the driver of the determination that they have lost the ability to continue to control the vehicle requiring the driver to generate a response to the notification monitoring the driver for the response to the notification and then controlling vehicular operation based on the monitoring of the driver for the response to the notification. 5. the method of claim 1, wherein the step of analyzing the images to derive a measure of flow of blood in at least one blood vessel, capillary and vein in the face of the occupant comprises determining a heartbeat of the driver, and the step of analyzing the blood flow over time to determine whether the driver has lost the ability to continue to control the vehicle comprises analyzing variability of the heartbeat of the driver. 6. the method of claim 1, wherein the frequency of the electromagnetic radiation is selected to ensure reflection from blood in the driver. 7. the method of claim 1, further comprising: analyzing a pattern of the at least one blood vessel, capillary and vein in the face of the occupant for providing a biometric identifier of the driver and controlling adjustment of a vehicular system based on the biometric identifier of the driver. 8. the method of claim 1, further comprising using pattern recognition to determine a location of the face of the driver from images being obtained by the at least one imaging device. 9. the method of claim 1, wherein the step of analyzing the images to derive a measure of flow of blood in at least one blood vessel, capillary and vein in the face of the occupant comprises determining a size of the at least one blood vessel, capillary and vein, and the step of analyzing the blood flow over time to determine whether the driver has lost the ability to continue to control the vehicle comprises analyzing variability of the size of the at least one blood vessel, capillary and vein driver. 10. the method of claim 1, wherein the step of illuminating the driver with electromagnetic radiation in an infrared portion of the electromagnetic spectrum using at least one illumination device comprising illuminating the driver with infrared illumination in a range from about 500 nm to about 600 nm. 11. the method of claim 1, wherein the step of illuminating the driver with electromagnetic radiation in an infrared portion of the electromagnetic spectrum using at least one illumination device comprising illuminating the driver with infrared illumination in a range from about 540 nm to about 580 nm. 12. the method of claim 1, wherein the step of obtaining images of the illuminated driver using at least one image obtaining device comprises obtaining at least one initial image, further comprising analyzing the at least one initial image to determine location of the face of the driver and based selecting a portion of the face of the driver for infrared illumination the step of illuminating the driver with electromagnetic radiation in an infrared portion of the electromagnetic spectrum using at least one illumination device comprising illuminating only the selected portion of the face of the driver. 13. the method of claim 12, further comprising adjusting the amount of illumination to harm to the driver. 14. the method of claim 12, further comprising focusing the illumination from the at least one illuminating device to avoid eyes of the driver. 15. the method of claim 12, further comprising monitoring movement of the selected portion of the face of the driver. 16. the method of claim 1, further comprising modulating the illumination from the at least one illuminating device. 17. the method of claim 1, further comprising analyzing the images to detect presence of alcohol or drugs in blood in at least one blood vessel, capillary and vein in the face of the occupant. 18. a method for optically monitoring a driver of a vehicle, comprising: illuminating a portion of the driver with electromagnetic radiation in a range of from about 540 nm to about 580 nm using at least one illumination device obtaining images of the illuminated driver using at least one image obtaining device analyzing the images to determine a heartbeat of the driver from flow of blood in at least one blood vessel, capillary and vein in the face of the occupant analyzing variability of the determined heartbeat of the driver to determine whether the driver has lost the ability to continue to control the vehicle, the loss of ability to continue to control the vehicle arising from the driver becoming drowsy, falling asleep or otherwise being incapable of controlling the vehicle after initially having been awake or otherwise capable of controlling the vehicle and taking action to effect a change in the operation of the vehicle upon a determination that the driver has lost the ability to continue to control the vehicle. 19. an arrangement for optically monitoring a driver of a vehicle, comprising: at least one illumination device that illuminate a portion of the driver with electromagnetic radiation in an infrared portion of the electromagnetic spectrum at least one image obtaining device that obtains images of the illuminated driver and a processor coupled to said at least one image obtaining device and that analyzes the images to derive a measure of flow of blood in at least one blood vessel, capillary and vein in the face of the occupant and then analyzes the blood flow over time to determine whether the driver has lost the ability to continue to control the vehicle, the loss of ability to continue to control the vehicle arising from the driver becoming drowsy, falling asleep or otherwise being incapable of controlling the vehicle after initially having been awake or otherwise capable of controlling the vehicle. 20. the arrangement of claim 19, further comprising a reactive component arranged within the vehicle coupled to said processor and which is affected by the determination by said processor that the driver has lost the ability to continue to control the vehicle, said reactive component requiring action by the driver to indicate regaining of the ability to control movement of the vehicle taking action to effect a change in the operation of the vehicle upon a determination that the driver has lost the ability to continue to control the vehicle. (Results 547)

Search 1 and heart rate sensor and (mobile or portable) (Results 1)
8:

Search 7 and heart rate sensor and (mobile or portable) (Results 9)
9:

Search FT=(heart rate sensor and (mobile or portable) and driver and drowsiness) (Results 107)
10:

Search 10 and pd<20151218 (Results 84)
11:

Search 12: [SP]: 1. a method for optically monitoring a driver of a vehicle, comprising: illuminating a portion of the driver with electromagnetic radiation in an infrared portion of the electromagnetic spectrum using at least one illumination device obtaining images of the illuminated driver using at least one image obtaining device analyzing the images to derive a measure of flow of blood in at least one blood vessel, capillary and vein in the face of the occupant and analyzing the blood flow over time to determine whether the driver has lost the ability to continue to control the vehicle, the loss of ability to continue to control the vehicle arising from the driver becoming drowsy, falling asleep or otherwise being incapable of controlling the vehicle after initially having been awake or otherwise capable of controlling the vehicle. 2. the method of claim 1, further comprising taking action to effect a change in the operation of the vehicle upon a determination that the driver has lost the ability to continue to control the vehicle. 3. the method of claim 1, further comprising requiring action by the driver to indicate regaining of the ability to control movement of the vehicle after a determination that the driver has lost the ability to continue to control the vehicle has been made. 4. the method of claim 1, further comprising: notifying the driver of the determination that they have lost the ability to continue to control the vehicle requiring the driver to generate a response to the notification monitoring the driver for the response to the notification and then controlling vehicular operation based on the monitoring of the driver for the response to the notification. 5. the method of claim 1, wherein the step of analyzing the images to derive a measure of flow of blood in at least one blood vessel, capillary and vein in the face of the occupant comprises determining a heartbeat of the driver, and the step of analyzing the blood flow over time to determine whether the driver has lost the ability to continue to control the vehicle comprises analyzing variability of the heartbeat of the driver. 6. the method of claim 1, wherein the frequency of the electromagnetic radiation is selected to ensure reflection from blood in the driver. 7. the method of claim 1, further comprising: analyzing a pattern of the at least one blood vessel, capillary and vein in the face of the occupant for providing a biometric identifier of the driver and controlling adjustment of a vehicular system based on the biometric identifier of the driver. 8. the method of claim 1, further comprising using pattern recognition to determine a location of the face of the driver from images being obtained by the at least one imaging device. 9. the method of claim 1, wherein the step of analyzing the images to derive a measure of flow of blood in at least one blood vessel, capillary and vein in the face of the occupant comprises determining a size of the at least one blood vessel, capillary and vein, and the step of analyzing the blood flow over time to determine whether the driver has lost the ability to continue to control the vehicle comprises analyzing variability of the size of the at least one blood vessel, capillary and vein driver. 10. the method of claim 1, wherein the step of illuminating the driver with electromagnetic radiation in an infrared portion of the electromagnetic spectrum using at least one illumination device comprising illuminating the driver with infrared illumination in a range from about 500 nm to about 600 nm. 11. the method of claim 1, wherein the step of illuminating the driver with electromagnetic radiation in an infrared portion of the electromagnetic spectrum using at least one illumination device comprising illuminating the driver with infrared illumination in a range from about 540 nm to about 580 nm. 12. the method of claim 1, wherein the step of obtaining images of the illuminated driver using at least one image obtaining device comprises obtaining at least one initial image, further comprising analyzing the at least one initial image to determine location of the face of the driver and based selecting a portion of the face of the driver for infrared illumination the step of illuminating the driver with electromagnetic radiation in an infrared portion of the electromagnetic spectrum using at least one illumination device comprising illuminating only the selected portion of the face of the driver. 13. the method of claim 12, further comprising adjusting the amount of illumination to harm to the driver. 14. the method of claim 12, further comprising focusing the illumination from the at least one illuminating device to avoid eyes of the driver. 15. the method of claim 12, further comprising monitoring movement of the selected portion of the face of the driver. 16. the method of claim 1, further comprising modulating the illumination from the at least one illuminating device. 17. the method of claim 1, further comprising analyzing the images to detect presence of alcohol or drugs in blood in at least one blood vessel, capillary and vein in the face of the occupant. 18. a method for optically monitoring a driver of a vehicle, comprising: illuminating a portion of the driver with electromagnetic radiation in a range of from about 540 nm to about 580 nm using at least one illumination device obtaining images of the illuminated driver using at least one image obtaining device analyzing the images to determine a heartbeat of the driver from flow of blood in at least one blood vessel, capillary and vein in the face of the occupant analyzing variability of the determined heartbeat of the driver to determine whether the driver has lost the ability to continue to control the vehicle, the loss of ability to continue to control the vehicle arising from the driver becoming drowsy, falling asleep or otherwise being incapable of controlling the vehicle after initially having been awake or otherwise capable of controlling the vehicle and taking action to effect a change in the operation of the vehicle upon a determination that the driver has lost the ability to continue to control the vehicle. 19. an arrangement for optically monitoring a driver of a vehicle, comprising: at least one illumination device that illuminate a portion of the driver with electromagnetic radiation in an infrared portion of the electromagnetic spectrum at least one image obtaining device that obtains images of the illuminated driver and a processor coupled to said at least one image obtaining device and that analyzes the images to derive a measure of flow of blood in at least one blood vessel, capillary and vein in the face of the occupant and then analyzes the blood flow over time to determine whether the driver has lost the ability to continue to control the vehicle, the loss of ability to continue to control the vehicle arising from the driver becoming drowsy, falling asleep or otherwise being incapable of controlling the vehicle after initially having been awake or otherwise capable of controlling the vehicle. 20. the arrangement of claim 19, further comprising a reactive component

arranged within the vehicle coupled to said processor and which is affected by the determination by said processor that the driver has lost the ability to continue to control the vehicle, said reactive component requiring action by the driver to indicate regaining of the ability to control movement of the vehicle taking action to effect a change in the operation of the vehicle upon a determination that the driver has lost the ability to continue to control the vehicle. (Results 547)

Search SFT=(heart rate sensor and (mobile or portable) and driver and drowsiness and vehicle*) and PD<20151218 (Results 77)
13:

Search 13 and sleep* (Results 74)
14:

Search 14 and TAC*(driver or drowsiness or vehicle) (Results 74)
15:

Search 14 and (TAC=(driver or drowsiness or vehicle)) (Results 10)
16:

1) Family number: 54930177 (US2015038855A)

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Title: METHOD AND DEVICE FOR ACCURATE REAL-TIME DETECTION OF DROWSINESS IN OPERATORS USING PHYSIOLOGICAL RESPONSES

Abstract: A method and device for detection of drowsiness of a person, based on a relationship between distal temperature and heart rate and on a balance between body heat loss and body heat production, wherein the distal temperature in a predetermined distal region of the person is monitored as a measure for body heat loss, and the heart rate of the person is monitored as a measure for body heat production, wherein drowsiness in the immediate future is concluded when a change of distal temperature passes a first threshold and, subsequently, a change of the heart rate passes a second threshold or, subsequently, the change of the distal temperature is larger than the change of the heart rate.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/18

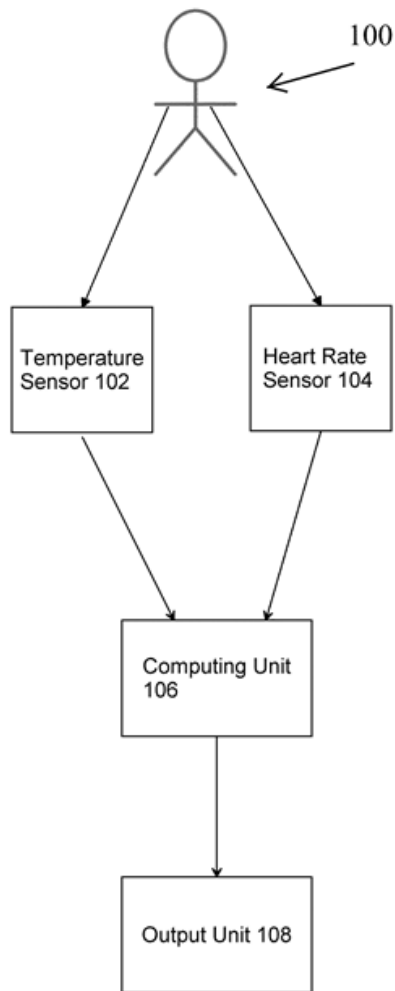
G08B21/06 (Advanced/Invention)

CPC: A61B5/18 A61B5/02055 A61B5/7275 A61B5/746 G08B21/06

G16H50/30

US: 600/483

PatBase - US2015038855_AA



Family:

Publication number	Publication date	Application number	Application date
DE602014002172 D1	20160714	DE201460002172T	20140805
EP2842490 A1	20150304	EP20140179949	20140805
EP2842490 B1	20160601	EP20140179949	20140805
ES2587935 T3	20161027	ES20140179949T	20140805
GB201313986 A0	20130918	GB20130013986	20130805
US2015038855 AA	20150205	US20140451987	20140805

Priority:

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EP20140179949 20140805

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Agent(s): Callewaert Raf ; Isern Jorge

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

2) Family number: 30222191 (US2004059212A)

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Title: APPARATUS AND METHOD FOR MEASURING BIOLOGIC PARAMETERS

Abstract: Support structures for positioning sensors on a physiologic tunnel for measuring physical, chemical and biological parameters of the body and to produce an action according to the measured value of the parameters. The support structure includes a sensor fitted on the support structures using a special geometry for acquiring continuous and undisturbed data on the physiology of the body. Signals are transmitted to a remote station by wireless transmission such as by electromagnetic waves, radio waves, infrared, sound and the like or by being reported locally by audio or visual transmission. The physical and chemical parameters include brain function, metabolic function, hydrodynamic function, hydration status, levels of chemical compounds in the blood, and the like. The support structure includes patches, clips, eyeglasses, head mounted gear and the like, containing passive or active sensors positioned at the end of the tunnel with sensing systems positioned on and accessing a physiologic tunnel.

Classifications:

International (IPC 8-9): A41D20/00 A42B3/04 A42C5/02 A61B A61B10/00 A61B5/00 A61B5/01 A61B5/02 A61B5/0205 A61B5/021 A61B5/024 A61B5/04 A61B5/0476 A61B5/05 A61B5/053 A61B5/103 A61B5/11 A61B5/117 A61B5/1171 A61B5/145 A61B5/1455 A61B5/1486 A61B6/00 A61B8/08 A61F7/00 A61F7/12 A61K31/01 A61K31/785 A61K33/44 A61L27/54 A61L29/10 A61L31/08 A61L33/02 A61M21/02 A61P7/02 A61P9/04 B60H1/00 B60K28/06 B60T7/14 B60W10/00 B60W40/08 B60W50/00 B62D6/00 F24F11/02 G01B11/24 G01J1/02 G01J5/00 G01J5/10 G01K G01K1/00 G01K1/02 G01K1/16 G01K13/00 G01K13/02 G01K7/00 G01N21/35 G02B27/00 G02C11/00 G08B5/36 H04N5/225 H04N5/33 H04N7/18 (Advanced/Invention);

A61B5/00 A61B5/01 A61B5/02 A61B5/0205 A61B5/04 A61B5/145 A61B5/1455 A61B5/1491 A61B8/08 A61F7/12 B60W40/08 G01J5/00 G01K7/22 (Advanced/Non-invention); A61B10/00 A61B5/00 A61B5/01 A61K31/01 A61K31/74 A61K33/44 A61L27/00 A61L29/00 A61L31/08 A61L33/00 A61P7/00 A61P9/00 F24F11/02 (Core/Invention);

A61B G01K G01N (Subclass/Invention)

International (IPC 1-7): A61B5/00 A61B5/01 A61B5/04 G01B11/24 G01K1/02 G01N0/00 G02B27/00 G02C11/00

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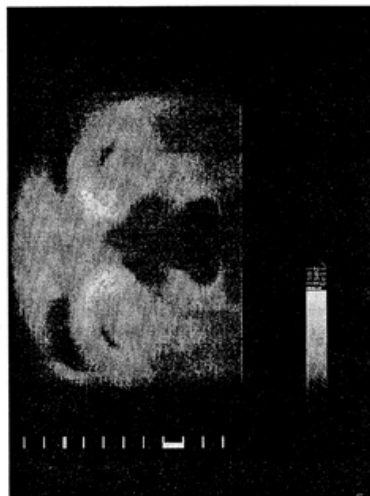
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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20180039761 20180719

Probable Assignee: GEELUX HOLDINGS LTD

Assignee(s): (std): AB MARCIO MARC AURELIO MARTINS ; ABREU MARCIO ; ABREU MARCIO M ; ABREU MARCIO MARC ; ABREU MARCIO MARC AURELIO MART ; ABREU MARCIO MARC AURELIO MARTINS ; MARCIO MARC AURIELO MARTINS AB ; MARCIO MARC AURELIO MARTINS AB ; MARCIO MARC AURELIO MARTINS ABREU ; MARCIO ABREU ; ABREU MARCIO MARC AURELIO MARTINUS ; MARCIO MARC ABREU ; GEELUX HOLDINGS LTD ; GEELUX HOLDING LTD ; MARCIO ABREAU

Assignee(s): ABREU MARCIO MARC AURELIO MARTINS ; MARCIO MARC AURIELO MARTINS ABREU ; BRAIN TUNNELGENIX ; ABRUE MARCIO MARC AURELIO MARTINS ; ABREU MARCIO MARC AURELIO MARTINS MR ; ABREU MARCIO MARC AURELIO MARTINS NORTH HAVEN

Inventor(s): (std): AB MARCIO MARC AURELIO MARTINS ; ABREU MARCIO MARC ; ABREU MARCIO MARC AURELIO MART ; ABREU MARCIO MARC AURELIO MART ; MARCIO MARC ABREU ; MARCIO MARC AURELIO MARTINS AB ; MARCIO MARC AURELIO MARTINS ABREU ; MARCIO MARC AURIELO MARTINS AB ; MARCIO ABREAU ; ABREU MARCIO MARC AURELIO MARTINUS ; ABREU MARCIO M ; ABREU MARCIO MARC AURELIO MARTINS ; MARC ABREU MARCIO

Inventor(s): MARC AURELIO MARTINS ; MARCIO MARC AURIELO MARTINS ABREU ; ABREU MARCIO MARC AURELIO MARTINS ; ABRUE MARCIO ; ABREU MARCIO MARC AURELIO MARTINS NORTH HAVEN ; ABREU MARCIO MARC AURELIO ; ABREU MARCIO

Agent(s): FB RICE PTY LTD; FB RICE; MOFFAT AND CO; PFENNING MEINIG AND PARTNER MBB PATENTANWAELTE; WILLIAMS MICHAEL DAVID; PFENNING MEINIG AND PARTNER GBR; PFENNING MEINIG AND PARTNER MBB; TRIGO JOSE RAMON; NTD PATENT AND TRADE MARK AGENCY LTD; WOLFF BREGMAN AND GOLLER; NISHIJIMA TAKAKI; OHTSUKA FUMIAKI; SUDA HIROYUKI; KONDO NAOKI; UESUGI HIROSHI; DESHIMARU TAKESHI; ATMD BIRD AND BIRD LLP; JACOBSON HOLMAN PLLC; STUDEBAKER AND BRACKETT PC; SCHERER JONATHAN L

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

3) Family number: 49953199 (US2011282130A)

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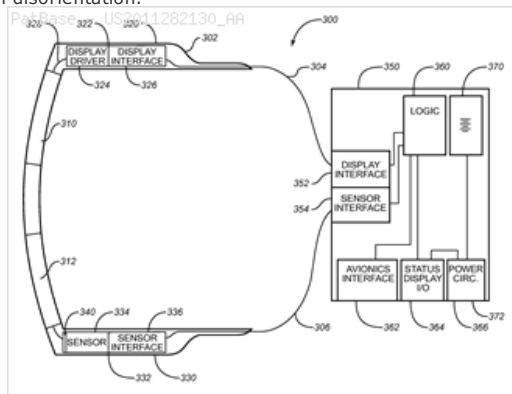
Title: SYSTEM AND METHOD FOR PREVENTION AND CONTROL OF THE EFFECTS OF SPATIAL DISORIENTATION

Abstract: An improved System and Method to provide a human user with symbology to ameliorate, prevent or shorten the duration of disorientation or motion sickness effects caused by spatial disorientation.

Classifications:

International (IPC 8-9): A61B3/14 A61B5/00 A61B5/0205 A61B5/0402 A61B5/0476 A61B5/18 A61M21/00 A61M21/02 B60W40/08 G01C23/00 G02B27/01 G06K9/00 G06T19/00 H04N13/04 (Advanced/Invention)
CPC: B60W40/08 A61B5/02055 A61B5/6803 A61B5/7445 A61B5/0476 A61B5/4863 A61B3/145 A61B5/4023 A61B5/7282 A61B5/0402 A61B5/7405 A61B5/746 A61B5/18 A61B5/7425 A61B5/7455 G06T19/006 B60W2040/0872 A61M21/00 A61M2021/0022 A61M2021/0027 A61M2021/0044 A61M2021/0083 A61M2205/18 A61M2205/3306 A61M2205/3317 A61M2205/332 A61M2205/3569 A61M2205/3592 A61M2205/507 A61M2210/0612 A61M2230/04 A61M2230/10 A61M2230/20 A61M2230/201 A61M2230/205 A61M2230/207 A61M2230/208 A61M2230/30 A61M2230/40 A61M2230/432 A61M2230/435 A61M2230/50 A61M2230/60 A61M2230/62 A61M2230/63 A61M2230/65 G01C23/00 G02B27/017 G02B2027/0138 G02B2027/014 G02B2027/0187 G06K9/00604 G06K9/00671 H04N13/344 H04N13/366

European: A61M21/00 A61M21/02 G01C23/00 G02B27/01C K61M205/35R3 K61M205/35T2 K61M21/00A6 K61M210/06B K61M230/04 K61M230/20D K61M230/30 K61M230/40 K61M230/50 K61M230/60 K61M230/62 K61M230/63 S02B27/01D4
US: 1/1 340/576 348/78 600/27 600/27P



Family:

Publication number	Publication date	Application number	Application date
US2011282130 AA	20111117	US20110108683	20110516
US2014152792 AA	20140605	US20140172734	20140204
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US8690750 BB	20140408	US20110108683	20110516
US9298985 BB	20160329	US20140172734	20140204
US9994228 BB	20180612	US20160048824	20160219
WO11143655 A1	20111117	WO2011US36663	20110516

Priority:

US20100345040P 20100514 US20110108683 20110516 US20140172734 20140204
US20150177070P 20150304 US20160048824 20160219

Probable Assignee: IARMOURHOLDINGS INC

Assignee(s): (std): ADVITECH INC ; IARMOURHOLDINGS INC ; KRUEGER M D DR WESLEY W O ; KRUEGER WESLEY WO ; WESLEY W O KRUEGER ; KRUEGER WESLEY W O

Assignee(s): KRUEGER MD ; WESLEY WO KRUEGER ; KRUEGER M D

Inventor(s): (std): KRUEGER M D DR WESLEY W O ; KRUEGER WESLEY W O ; KRUEGER WESLEY WO

Inventor(s): KRUEGER MD ; KRUEGER M D

Agent(s): KILPATRICK TOWNSEND AND STOCKTON LLP; GREYER HEINZ

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

4) Family number: 50960234 (DE202012001096U1)

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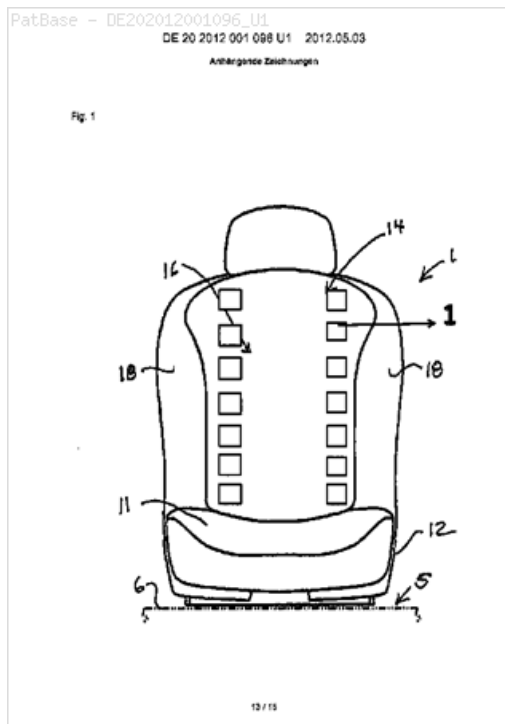
Title: Vorrichtung zur Durchfuehrung von Fahrerzustandsanalysen Device **drivers** for performance of state analysis of (Machine translation)

Abstract: Source: DE202012001096U1 [DE] Vorrichtung zur Durchfuehrung von Fahrerzustandsanalysen bestehend aus einer Kombination der beruehrungslosen kapazitiven Erfassung, Analyse und Auswertung der Parameter der Herzfrequenzvariabilitaet, der Herzfrequenz und des Pulses eines Fahrers ueber die Zeitbereichsanalyse und Frequenzanalyse mit der beruehrungslosen Erfassung der Vitaldaten, insbesondere der EKG-Signal-Daten ueber textile kapazitive EMG-Sensoren in oder an Ruheelementen des Fahrers, insbesondere in oder an der Rueckenlehne des Sitzes, wobei diese Vitalparameter ueber die Identifikation und Messung der Zeitintervalle zwischen den R-Zacken des EKG (R-R-Intervalle), ueber den Aufbau dynamischer Reihen der Kardiointervalle (Kardiointervallogramme) und ueber die Analyse der allgemeinen Variabilitaet, wie Zeitbereichsanalyse, der periodischen Komponenten der HRV, wie Frequenzanalyse ueber die Fouriertransformation und der inneren Organisation der dynamischen Reihe der Kardiointervalle, wie Autokorrelationsanalyse, Korrelationsrhythmographie und Methoden der nichtlinearen Dynamik ausgewertet und der funktionale Gesundheitszustandes, der Stresszustand und die Aktivitaet der Regulations- und Anpassungssysteme, insbesondere des vegetativen Nervensystems mit sympathischen und parasympathischen Anteil des Fahrers ueber ein Ampelsystem angezeigt werden,...

Machine translation: Device for performance of of **driver** state analysis consisting of a combination of beruehrungslosen capacitive detection, analysis and evaluation of the parameters of heart rate variability, heart rate and heart rate of a **driver** over the time-domain analysis and frequency analysis with the beruehrungslosen recording of vital signs, especially the ECG signal data by textile capacitive EMG sensors in or at rest elements of the **driver**, in particular in or on the backrest of the seat, said vital signs by the identification and measurement of the time intervals between R waves of the ECG (RR intervals), with the structure dynamic series of Kardiointervalle (Kardiointervallogramme) and by the analysis of the overall variability, such as time domain analysis, the periodic components of HRV, such as frequency analysis over the Fourier transform and the internal organization of the dynamic range of Kardiointervalle as autocorrelation analysis, Korrelationsrhythmographie and methods of nonlinear dynamics is evaluated and the functional state of health, the stress state and the activity of the regulatory and adaptive systems, especially the autonomic nervous system with sympathetic and parasympathetic parts of the **driver** over a traffic light system will be displayed...

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0402 A61B5/044 A61B5/0456 A61B5/18 (Advanced/Invention)
CPC: A61B5/02405 A61B5/02444 A61B5/0402 A61B5/0408 A61B5/18 A61B5/6893 A61B5/7445
European: A61B5/024A A61B5/024H A61B5/0402 A61B5/0408 A61B5/18 A61B5/74D10 K61B5/68F5



Family:

Publication number	Publication date	Application number	Application date
DE202012001096 U1	20120503	DE201220001096U	20120203

Priority:

DE201220001096U 20120203

Probable Assignee: AUTOMATION AND SOFTWARE GUENTHER TAUSCH GMBH

Assignee(s): (std): AUTOMATION AND SOFTWARE GUENTHER TAUSCH GMBH

5) Family number: 49454443 (US2014307878A)

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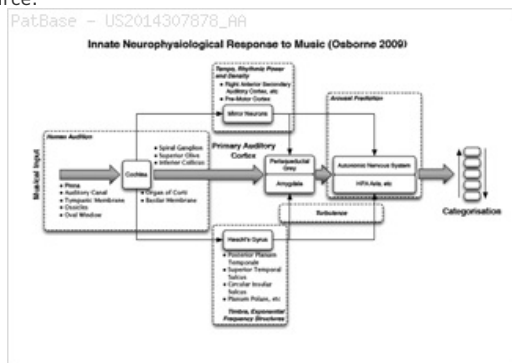
Title: METHOD AND SYSTEM FOR ANALYSING SOUND

Abstract: The present invention relates to a method and system for analysing audio (eg. music) tracks. A predictive model of the neuro-physiological functioning and response to sounds by one or more of the human lower cortical, limbic and subcortical regions in the brain is described. Sounds are analysed so that appropriate sounds can be selected and played to a

listener in order to stimulate and/or manipulate neuro-physiological arousal in that listener. The method and system are particularly applicable to applications harnessing a biofeedback resource.

Classifications:

International (IPC 8-9): A61M21/00 G06F G06F17/30 G06F19/00 G10G1/00 G10H G10H1/00 G10L19/00 G10L25/51 G10L25/63 H04R29/00 (Advanced/Invention); G06F G10H (Subclass/Invention)
CPC: H04R29/00 G06F19/3481 G10H1/0008 G10H2210/066 G10H2210/071 G10H2220/371 G10H2220/376 G10H2240/085 G10H2240/135 G10L25/63 G16H50/20 G16H50/50 G06F16/683
European: G10H1/00M S10H210/066 S10H210/071 S10H220/371 S10H220/376 S10H240/085 S10H240/135
US: 381/56



Family:

Publication number	Publication date	Application number	Application date
CN103890838 A	20140625	CN201280039163	20120611
CN107066801 A	20170818	CN201710054616	20120611
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US2018027347 AA	20180125	US20170676042	20170814
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Priority:

GB20110009731 20110610 GB20120006690 20120417 CN201280039163 20120611
WO2012GB51314 20120611 US20140125107 20140627 US20170676042 20170814

Probable Assignee: X SYSTEM LTD

Assignee(s): (std): ASHCROFT ROBERT ; KINGSLEY PETER ; OSBORNE NIGEL ; ROBERTSON PAUL ; SYSTEM LTD X ; X SYSTEM LTD

Assignee(s): X SYSTEM LIMITED

Inventor(s): (std): ASHCROFT ROBERT ; KINGSLEY PETER ; NIGEL OSBORNE ; OSBORNE NIGEL ; OSBOURNE NIGEL ; PAUL ROBERTSON ; PETER KINGSLEY ; ROBERT ASHCROFT ; ROBERTSON PAUL

Inventor(s): NIGEL OSBOURNE

Agent(s): LANGLEY PETER JAMES; WENPING AND CO; SAUL EWING LLP; ORIGIN LIMITED

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

6) Family number: 57405458 (US2014276112A)

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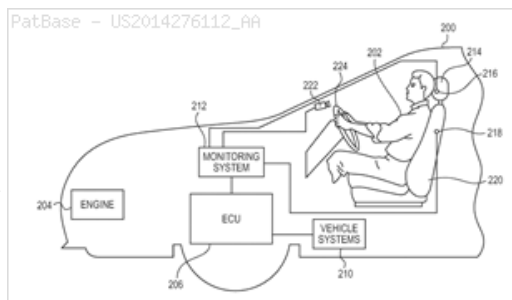
Title: SYSTEM AND METHOD FOR DETERMINING CHANGES IN A BODY STATE

Abstract: A method and a system for determining changes in a body state of an individual including receiving a signal from a monitoring system, where the signal indicates a measurement of cardiac activity of the individual over a period of time and determining at least one signal feature, where the signal feature is a reoccurring event of the signal over the period of time. The method also includes determining a first interval between two successive signal features and determining a second interval between two successive first intervals. A derivative is calculated based on the second interval. Changes in the body state are identified based on the derivative.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/02 A61B5/024 A61B5/0245 A61B5/026 A61B5/0295 A61B5/04 A61B5/0402 A61B5/0408 A61B5/0432 A61B5/0452 A61B5/0456 A61B5/0476 A61B5/08 A61B5/11 A61B5/117 A61B5/1171 A61B5/1455 A61B5/16 A61B5/18 A61B8/00 A61B8/02 A61B90/00 B60C9/00 B60K28/02 B60K28/06 B60K35/00 B60Q9/00 B60R1/00 B60R16/02 B60R16/027 B60R25/00 B60R25/25 B60R99/00 B60W40/08 B60W50/00 B60W50/04 B60W50/08 B60W50/14 B62D1/04 B62D1/06 B62D15/02 B62D5/04 G01D5/24 G01L3/00 G01S19/13 G01S19/14 G01S19/42 G02F7/00 G05D1/00 G06F19/00 G06F3/041 G06F3/0488 G06F7/00 G06F7/70 G06K9/00 G07C5/00 G07C5/02 G07C9/00 G08C17/02 G16H50/20 H04B1/10 (Advanced/Invention); A61B5/024 A61B5/0408 A61B5/08 A61B5/117 A61B8/02 B60W40/08 (Advanced/Non-invention)

CPC: A61B5/0245 A61B5/0456 B60W2540/22 A61B5/7239 A61B5/7203 A61B5/7228 G06F19/36 G08C17/02 A61B5/02444 A61B5/6893 A61B5/6822 A61B5/6823 A61B2560/0462 A61B2562/0204 A61B2562/046 B60R99/00 B60K2350/352 B62D15/025 A61B5/02405 A61B8/02 G01L3/00 B60K28/02 A61B5/11 A61B5/14552 A61B5/0261 B60K37/06 B60K2350/928 A61B5/1455 A61B90/00 B60K28/06 A61B5/02416 A61B5/0816 B60W50/0098 B60W2040/0818 B60W2040/0872 B60W2050/0075 A61B5/04085 A61B5/7207 G06K9/00845 G07C9/00158 B60W2540/26 B60W2050/146 B60Y2200/11 B60K2350/1096 B60W50/14 A61B5/04 A61B5/725 B60K35/00 H04B1/10 B60K2350/1004 B60K2350/1032 B62D1/04 G06F3/0416 A61B5/02 B60C9/00 B60R1/00 B60R2300/8006 B60K2350/1036 A61B5/7246 A61B5/0015 A61B5/024 B60W2040/0809 A61B5/0507 G16H10/60 G16H50/20 G08C17/00 B60W2040/0827 G06F3/0488 B60W50/08 B60W2040/0881



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US: 1/1 340/576 600/300 600/479 600/508 600/509 600/521 701/1 701/117 701/36 702/19 702/191

Family:

Publication number	Publication date	Application number	Application date
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CN106073728 A	20161109	CN201610246736	20160420
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JP2017178309 A2	20171005	JP20170043597	20170308
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US2014303899 AA	20141009	US20130858038	20130406
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WO15200224 A2	20151230	WO2015US37019	20150622
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Priority:

US20130843077	20130315	US20130858038	20130406	US20130074710	20131107
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US20170617732	20170608	US20170656595	20170721	US20170720489	20170929

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s): (std): DICK TIMOTHY J ; FUNG KIN C ; HONDA MOTOR CO LTD

Assignee(s): HONDA MOTOR CO

Inventor(s): (std): CHARLES WILLIAM HALL JR ; DHANASHREE PALANDE ; FUNG KIN C ; DICK TIMOTHY J ; KIN C FUNG ; HALL CHARLES WILLIAM JR ; PALANDE DHANASHREE ; HALL JR CHARLES WILLIAM ; TIMOTHY J DICK

Inventor(s): KIN CFUNG ; HALL JR ; HALL CHARLES WILLIAM JR RAYMOND ; TIMOTHY JDICK ; FUNG KIN C RAYMOND ; DICK TIMOTHY J RAYMOND

Agent(s): WEICKMANN AND WEICKMANN PATENT U RECHTSANWAELTE PARTMBB; WEICKMANN AND WEICKMANN; WEICKMANN AND WEICKMANN PARTMBB; ISONO MICHIZO; ISONO INT PATENT OFFICE

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

7) Family number: 43364724 (US2008161654A)

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Title: METHOD AND APPARATUS FOR AUTO JOURNALING OF BODY STATES AND PROVIDING DERIVED PHYSIOLOGICAL STATES UTILIZING PHYSIOLOGICAL AND/OR CONTEXTUAL PARAMETER

Abstract: Various methods and apparatuses for measuring a state parameter of an individual using signals based on one or more sensors are disclosed. In one embodiment, a first set of signals is used in a first function to determine how a second set of signals is used in one or more second functions to predict the state parameter. In another embodiment, first and second functions are used where the state parameter or an indicator of the state parameter may be obtained from a relationship between the first function and the second function. The state parameter may, for example, include calories consumed or calories burned by the individual. Various methods for making such apparatuses are also disclosed.

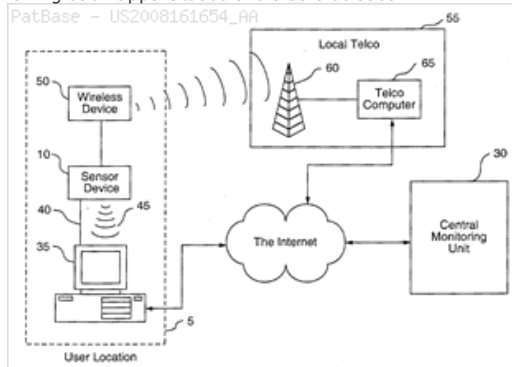
Classifications:

International (IPC 8-9): A61B5/00 A61B5/01 A61B5/0205 A61B5/053 A61B5/103 A61B5/11 A61B5/16 A63B24/00 G06F19/00 G06F9/44 (Advanced/Invention); G06F17/00 (Advanced/Non-invention); A61B5/00 A61B5/103 G06F19/00 (Core/Invention); A61B G06F (Subclass/Invention)

CPC: G06F19/3418 A61B5/0205 G06F19/30 A61B5/01 A61B5/0533 A61B5/16 A61B5/4809 A61B5/4836 A61B5/4884 A61B5/6801 A61B5/7225 A61B5/7264 A61B5/7267 A61B5/7275 A61B5/7278 A61B5/7282 A61B5/7445 A63B24/0062 A63B2024/0065 G06F8/00 A61B5/1118 A61B5/743 A61B5/002 A61B5/0022 A61B5/411 A61B5/6824 A61B5/7475 A61B2562/0219 G06F19/3475 Y10S128/905 Y10S128/92 Y10S128/921 G06F17/00 A61B5/0002 A61B5/02055 A61B5/021 A61B5/02405 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/0816 A61B5/0833 A61B5/11 A61B5/14532 A61B5/4872 A61B5/4875 A61B5/4866 G16H10/60 G16H50/20 A61B5/0496

European: A61B5/00B A61B5/01 A61B5/053B4 A61B5/41B A61B5/74M G06F19/34M K61B5/68B2H K61B5/72K12B K61B562/02C

US: 1/1 600/300 600/300P



Family:

Publication number	Publication date	Application number	Application date
US2008161654 AA	20080703	US20070930081	20071030
US9165117 BB	20151020	US20070930081	20071030

Priority:

US20020417163P 20021009 US20030682293 20031009 US20070930081 20071030

Probable Assignee: BODYMEDIA INC

Assignee(s): (std): TELLER ERIC ; PACIONE CHRISTOPHER ; SAFIER SCOTT ; STIVORIC JOHN ; PELLETIER RAYMOND ; FARRINGTON JONATHAN ; VISHNUBHATLA SURESH ; ANDRE DAVID ; BODYMEDIA INC

Assignee(s): DBD CREDIT FUNDING LLC ADMINISTRATIVE AGENT AS ; BLACKROCK ADVISORS LLC ; ALIPH INC ; ALIPHCOM ; SPRING CAPITAL PARTNERS II LP ; WELLS FARGO BANK NATIONAL ASSOCIATION AGENT AS ; SILVER LAKE WATERMAN FUND LP SUCCESSOR AGENT AS ; MACGYVER ACQUISITION LLC ; PROJECT PARIS ACQUISITION LLC

Inventor(s): (std): ANDRE DAVID ; FARRINGTON JONATHAN ; PACIONE CHRISTOPHER ; PELLETIER RAYMOND ; SAFIER SCOTT ; STIVORIC JOHN ; TELLER ERIC ; VISHNUBHATLA SURESH

Agent(s): STRATEGIC PATENTS PC; KOKKA AND BACKUS PC

8) Family number: 43364738 (US2008171921A)

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Title: METHOD AND APPARATUS FOR AUTO JOURNALING OF BODY STATES AND PROVIDING DERIVED PHYSIOLOGICAL STATES UTILIZING PHYSIOLOGICAL AND/OR CONTEXTUAL PARAMETER

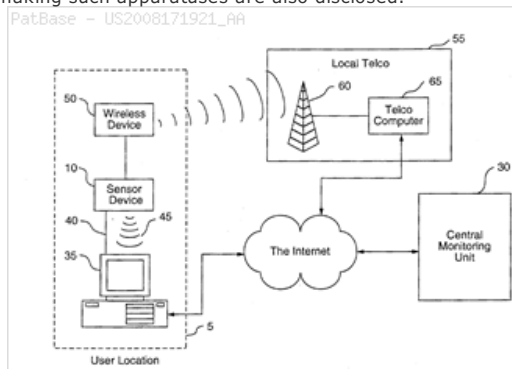
Abstract: Various methods and apparatuses for measuring a state parameter of an individual using signals based on one or more sensors are disclosed. In one embodiment, a first set of signals is used in a first function to determine how a second set of signals is used in one or more second functions to predict the state parameter. In another embodiment, first and second functions are used where the state parameter or an indicator of the state parameter may be obtained from a relationship between the first function and the second function. The state parameter may, for example, include calories consumed or calories burned by the individual. Various methods for making such apparatuses are also disclosed.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/01 A61B5/053 A61B5/103 G06F19/00 (Advanced/Invention); A61B5/00 A61B5/103 G06F19/00 (Core/Invention); A61B G06F (Subclass/Invention)

CPC: G06F19/3418 A61B5/0205 G06F19/30 A61B5/01 A61B5/0533 A61B5/16 A61B5/4809 A61B5/4836 A61B5/4884 A61B5/6801 A61B5/7225 A61B5/7264 A61B5/7267 A61B5/7275 A61B5/7278 A61B5/7282 A61B5/7445 A63B24/0062 A63B2024/0065 G06F8/00 A61B5/1118 A61B5/743 A61B5/002 A61B5/0022 A61B5/411 A61B5/6824 A61B5/7475 A61B2562/0219 G06F19/3475 Y10S128/905 Y10S128/92 Y10S128/921 G06F17/00 A61B5/0002 A61B5/02055 A61B5/021 A61B5/02405 A61B5/0402 A61B5/0476 A61B5/0488 A61B5/0816 A61B5/0833 A61B5/11 A61B5/14532 A61B5/4872 A61B5/4875 A61B5/4866 G16H10/60 G16H50/20 A61B5/0496

European: A61B5/00B A61B5/01 A61B5/053B4 A61B5/41B A61B5/74M G06F19/34M K61B5/68B2H K61B5/72K12B K61B562/02C



US: 128/905 128/920 128/921 600/301 600/301P

Family:

Publication number	Publication date	Application number	Application date
US2008171921 AA	20080717	US20070930094	20071031
US8852098 BB	20141007	US20070930094	20071031

Priority:

US20020417163P 20021009 US20030682293 20031009 US20070930094 20071031

Probable Assignee: BODYMEDIA INC

Assignee(s): (std): TELLER ERIC ; PACIONE CHRISTOPHER ; SAFIER SCOTT ; STIVORIC JOHN ; PELLETIER RAYMOND ; FARRINGDON JONATHAN ; VISHNUBHATLA SURESH ; ANDRE DAVID ; BODYMEDIA INC

Assignee(s): DBD CREDIT FUNDING LLC ADMINISTRATIVE AGENT AS ; BLACKROCK ADVISORS LLC ; ALIPH INC ; ALIPHCOM ; SPRING CAPITAL PARTNERS II LP ; WELLS FARGO BANK NATIONAL ASSOCIATION AGENT AS ; SILVER LAKE WATERMAN FUND LP SUCCESSOR AGENT AS ; MACGYVER ACQUISITION LLC ; PROJECT PARIS ACQUISITION LLC

Inventor(s): (std): ANDRE DAVID ; FARRINGDON JONATHAN ; PACIONE CHRISTOPHER ; PELLETIER RAYMOND ; SAFIER SCOTT ; STIVORIC JOHN ; TELLER ERIC ; VISHNUBHATLA SURESH

Agent(s): STRATEGIC PATENTS PC; JOHN A; GTC LAW GROUP LLP AND AFFILIATES

9) Family number: 60394881 (US2015265201A)

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Title: SYSTEM AND METHOD TO DETECT ALERTNESS OF MACHINE OPERATOR

Abstract: A system and method relate to receiving, by a processing device, at least one stream of data captured by at least one sensor monitoring a human subject, wherein the at least one stream of data comprises sensor measurements, comparing the sensor measurements to at least one model of a mental state to estimate the mental state of the human subject, determining whether to trigger an alarm based on the estimated mental state, and in response to determining to trigger the alarm, generating an instruction to trigger the alarm.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/0476

A61B5/0488 A61B5/08 A61B5/11 A61B5/16

A61B5/18 (Advanced/Invention);

A61B5/024 (Advanced/Non-invention)

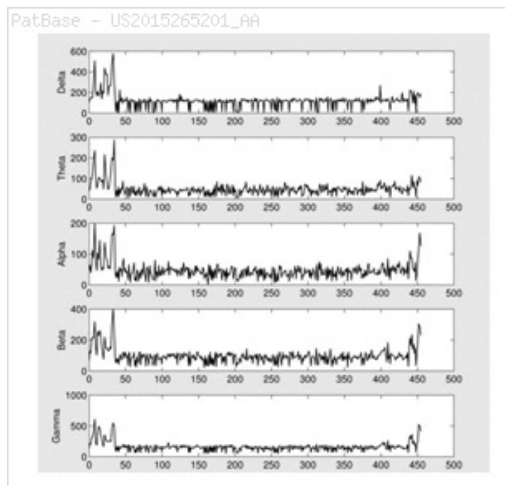
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US: 600/300 600/301 600/508 600/529 600/544 600/546 600/595



Family:

Publication number	Publication date	Application number	Application date
US2015265201 AA	20150924	US20150660155	20150317
US2017231546 AA	20170817	US20170583474	20170501
US9636063 BB	20170502	US20150660155	20150317

Priority:

US20140954819P 20140318 US20150660155 20150317 US20170583474 20170501

Probable Assignee: ARBAS J KIMO

Assignee(s): (std): ARBAS J KIMO

Inventor(s): (std): ARBAS J KIMO

Agent(s): FISH AND RICHARDSON PC

10) Family number: 60336908 (IN02950MU2015A)

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Title: A SYSTEM FOR MONITORING A **DRIVER** OF A **VEHICLE**

Abstract: A system for monitoring a **driver** of a **vehicle** that keeps the monitoring means updated about a car at every instance of time by the help of biometric instruments. This system for monitoring a **driver** of a **vehicle** comprises a microcontroller, a **heart rate sensor** having an infrared diode, a photo diode and an operational amplifier, a display means; and a GSM module for transmitting data.

Classifications:

International (IPC 8-9): B60J1/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN02950MU2015 A	20150911	IN2015MU02950	20150804

Priority:

Probable Assignee: AMLAN BASU
Assignee(s): (std): AMLAN BASU ; INDRA VIJAY SINGH ; KUNDAN KUMAR JHA
Inventor(s): (std): AMLAN BASU ; INDRA VIJAY SINGH ; KUNDAN KUMAR JHA