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US6696957B2

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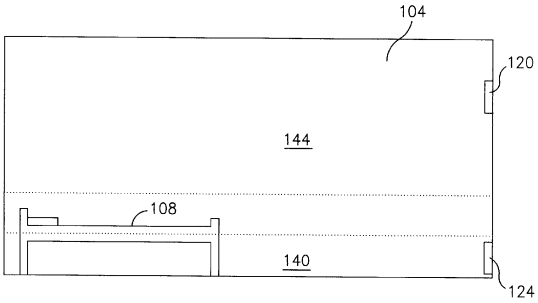
100	US20050162515A1	Video surveillance system	Objectvideo Inc	35

1. Situation-based monitoring system

US5905436A | Gerontological Solutions Inc



Bibliographic data

Publication date: 1999-05-18
Application date: 1997-10-23
Earliest priority date: 1996-10-24

Inventors: DWIGHT LESLIE, BRIGGS RONALD L

CPC classification: G08B 21/0415, G08B 21/0469
IPC classification: G08B 21/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A situation-based monitoring system monitors various activities of persons in rooms of a home or residential care facility, determines when the person is in distress and communicates that fact to appropriate personnel. The system includes a programmable processor connected with sensors in the monitored area. The sensors detect various physical parameters associated with the monitored persons, such as motion or the identity of the persons themselves. From the sensed conditions, the processor determines when a distress situation or condition exists (e.g., a person has fallen) and communicates information about the distress condition to a notification device. Various situations may be configured differently for different people. The communication can either be an alarm indicating a condition requiring immediate attention, or may be information-only. The notification can be transmitted to a notification device, such as a computer or digital dialer via a modem or direct data exchange, which is accessed by emergency response personnel.

First claim

A situation-based monitoring system comprising:
fall sensor means for sensing a fall by a person within a predetermined area and for providing at least two sensed signals containing information indicative of the fall, wherein the sensor means comprises:
motion sensing means for sensing any motion of the person within the predetermined area, wherein the motion sensing means comprises a pair of motion sensors arranged within the predetermined area;
wherein a first one of the motion sensors in the pair is disposed to sense motion of the person within the predetermined area within a first portion of the predetermined area extending from a first predetermined height to a second predetermined height and is disposed to provide a first motion signal indicative of the presence or absence of the person within the first portion of the predetermined area; and
wherein a second one of the motion sensors in the pair is disposed to sense motion of the person within a second portion of the predetermined area extending from a third predetermined height to a fourth predetermined height and is disposed to provide a second motion signal indicative of the presence or absence of the person within the second portion of the predetermined area;
signal processing means, responsive to both the first and second motion signals for determining the condition of distress of the person falling down within the predetermined area from, at least in part, a condition where the first motion signal is indicative of the presence of the person within the first portion of the predetermined area and where the second motion signal is indicative of the absence of the person within the second portion of the predetermined area, and for providing at least one condition signal indicative of the existence of the condition of distress as determined by the signal processing means;
notification device means, responsive to the at least one condition signal, for providing an output signal indicative of the existence of the condition of distress associated with the person within the predetermined area; and
output device means, responsive to the output signal, for providing a recognizable indication of the condition of distress associated with the person within the predetermined area.

2. motion system

DE10035812B4 | ABB Patent GmbH

Bibliographic data

Publication date:	2007-02-08
Application date:	2000-07-22
Earliest priority date:	2000-07-22
Inventors:	ROSCH RAINER, HEITE CHRISTIAN, ZAPP ROBERT
CPC classification:	G08B 13/19658, G08B 13/19695
IPC classification:	G08B 21/00, G08C 19/00, G08B 7/00, G01P 13/00, G08B 15/00, G01D 9/00, G08B 13/196
External links:	Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

Motion detector system having at least one motion detector (1), a control device (2) for information acquisition, processing, logging and storage, an interface device (3) for connecting the control device (2) to a communication network, in particular the Internet, and a network camera (4), wherein the control device (2) is adapted to log movements detected and reported by the at least one motion detector (1) with time information, wherein the network camera (4) is adapted to create individual images or film recordings and a transmission in the communication network and wherein the motion detection system is adapted to transmit protocols and other records on demand over the communication network and, in response to a detected movement in the detection area and within a defined security area, to connect to a given subscriber to the communication network and to transmit current information in the form of a protocol, detected signals and video images, characterized in that the protocol is constructed in the following manner: First date: Motion detected, Second time indication: Camera turned on, Third time: Enter the security area towards the house, Fourth time: Leave security area, Fifth ...

First claim

Motion detector system with at least one motion detector (1), a control device (2) for information acquisition, processing, logging and storage, an interface device (3) for connecting the control device (2) with a communication network, in particular the Internet, and a network camera (4), wherein the control device (2) is arranged to be detected by at least one motion detector (1) Log detected and reported movements with time information, whereby the network camera (4) is adapted to create still images or film recordings and to allow transmission into the communication network, and wherein the motion detection system is adapted to transmit protocols and other recordings on demand over the communication network and in response to detected movement in the detection area and in a defined manner Security area to establish a connection to a given participants in the communication network and transmit current information in the form of a protocol, detected signals and video images, characterized in that the protocol is constructed in the following manner: wherein the image resulting between the second and the sixth time indication is made available to the communication network for transmission.

3. Object location information

US8493442B2 | Lot 3 Acquisition Foundation LLC

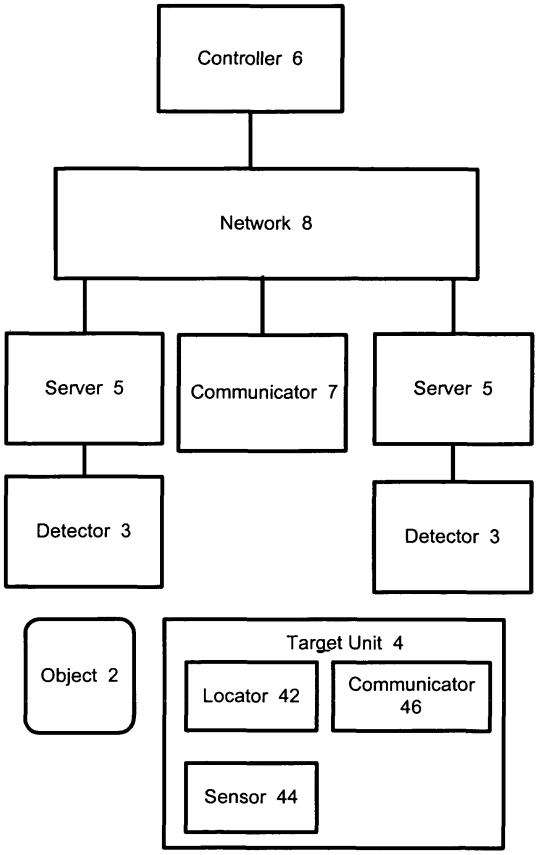
Bibliographic data

Publication date: 2013-07-23
Application date: 2001-03-29
Earliest priority date: 1998-03-19

Inventors: FERNANDEZ DENNIS SUNGA, FERNANDEZ IRENE HU

CPC classification: G08B 13/19608, G08B 13/19656, G08B 13/19691, G08B 13/19697, H04N 21/812, H04N 7/181
IPC classification: G01S 5/14, H04N 7/18, G01S 19/48, H04N 21/81

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

Integrated imaging and GPS network monitors remote object movement. Browser interface displays objects and detectors. Database stores object position movement. Cameras detect objects and generate image signal. Internet provides selectable connection between system controller and various cameras according to object positions.

First claim

A system comprising:
a communicator configured to receive first data associated with an object and second data associated with the object, wherein the first data is received from a fixed detector configured to detect the first data, and wherein the second data is received from a mobile target unit comprising a sensor configured to detect the second data, wherein the mobile target unit is at least one of: mounted in the object, mounted on the object, carried in the object, or carried on the object; and
a processor configured to correlate the first data and the second data to generate object location information.

4. MONITORING SYSTEM

WO2001063576A2 | UNIV MANCHESTER, THACKER NEIL, COURTNEY PATRICK

Bibliographic data

Publication date: 2001-08-30
Application date: 2001-02-23
Earliest priority date: 2000-02-23

Inventors: THACKER NEIL, COURTNEY PATRICK

CPC classification: G06T 2207/10016, G06T 2207/30196, G06T 7/223, G08B 21/0423, G08B 21/0476, G08B 21/22
IPC classification: G08B 21/04, G08B 21/22, G06T 7/20

External links: Google Patents, Espacenet, EP Register, Patentscope, PatBase Express, PatBase, Orbit

Abstract

A monitoring system for monitoring the behaviour of an object, the monitoring system having at least one image sensor and being operative to extract variables from image sequences input from the one or more image sensor, wherein the variables are interrelated such that certain combinations of values of variables occur frequently and other combinations of values of variables do not occur during normal behaviour of the object, the values of variables and relationships between the variables are recorded by the monitoring system as a reference set of data, and after the values of the variables and the relationships between the variables have been recorded for a predetermined training time, an event is triggered by the system when an unusual combination of values of variables occurs.

First claim

A monitoring system for monitoring the behaviour of an object, the monitoring system having at least one image sensor and being operative to extract variables from image sequences input from the one or more image sensor, wherein the variables are interrelated such that certain combinations of values of variables occur frequently and other combinations of values of variables do not occur during normal behaviour of the object, the values of variables and relationships between the variables are recorded by the monitoring system as a reference set of data, and after the values of the variables and the relationships between the variables have been recorded for a predetermined training time, an event is triggered by the system when an unusual combination of values of variables occurs.

5. Method and apparatus for monitoring movements of an individual

US6049281A | OSTERWEIL; JOSEF

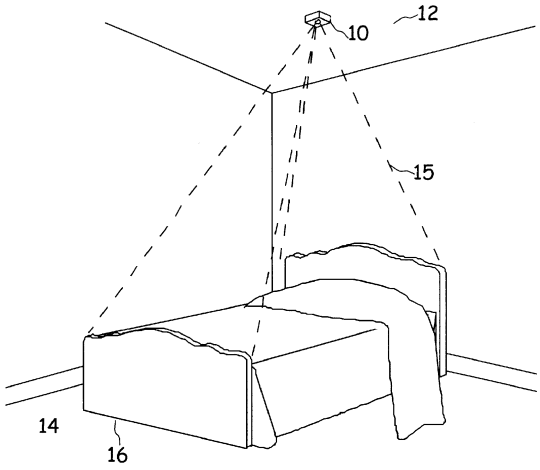
Bibliographic data

Publication date: 2000-04-11
Application date: 1998-09-29
Earliest priority date: 1998-09-29

Inventors: OSTERWEIL JOSEF

CPC classification: A61B 5/002, A61B 5/0022, A61B 5/1128, A61B 5/7232, A61B 5/747, G08B 21/22
IPC classification: A61B 5/00, A61B 5/11, G08B 21/22

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

Monitoring an individual to determine when the individual is likely to exit a supportive structure. An apparatus has an image capturing device that captures successive images of the monitored individual in the supportive structure. A processing device compares a current captured image to a previous image to detect predetermined characteristics of the monitored individual with respect to the supportive structure. An alarm is actuated when it is determined that the detected predetermined characteristics exceed predetermined threshold values for at least one of the predetermined characteristics.

First claim

An apparatus that determines when a monitored individual is likely to exit a supportive structure, comprising:
an image capturing device that captures successive images of the monitored individual in the supportive structure;
a processing device that processes said captured images to detect predetermined characteristics of the monitored individual with respect to the supportive structure, by comparing a current captured image to a previous image, said predetermined characteristics comprising at least one of a relative position, a velocity, and an acceleration of the monitored individual relative to the supportive structure; and
an alarm that is actuated when said processing device determines that said detected predetermined characteristics exceed predetermined threshold values for at least one of said predetermined characteristics.

6. Location confirmation system

JP3460662B2 | Funai Electric Co Ltd

Bibliographic data

Publication date: 2003-10-27
Application date: 2000-02-18
Earliest priority date: 2000-02-18

Inventors: 一本 繁

CPC classification:
IPC classification: H04M 11/00, H04Q 9/00, G08B 25/01, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

PROBLEM TO BE SOLVED: To enable a supervisor to grasp the action of a person to be monitored at need without requiring a managing center or the like, to reduce the initial cost or running cost such as communication cost, to ensure the security and privacy and to make a localization confirmation system especially suitable for monitoring the aged who lives alone at home. SOLUTION: A terminal 1 for web site located in the residence of a person to be monitored successively updates the file data of a home page containing localization information while receiving outputs from sensors 3-1, 3-2 .... This terminal 1 closes a line in response to dial-up from the side of the supervisor through a telephone line 5 by operating a terminal 11 corresponding to prescribed connection information and transfers the file data of the home page to a terminal on the side of the supervisor as a server.

First claim

(57) [Claims] 1. Detecting whereabouts of a person to be monitored
Creates location information in response to the sensor output and separates it from the monitored person.
Location information that allows the observer to view the information from the
Authentication system,The sensors are provided at a plurality of locations in the room where the monitored person is located.
A temperature sensor that detects a temperature change The location of the monitored person receives the sensor output and
Update the homepage file data including information sequentially
Terminals for websites The terminal is provided with predetermined connection information and has a telephone line.
Dial-up by terminal operation on the supervisor side via
Respond and conclude the line.
Server that forwards data to the terminal on the monitor side. AndThe file data of the home page of the terminal is
The location information of the monitored person in the residence based on the output
And time information,The location and time information, which is the location information, is
The room layout of the whereabouts is displayed on the screen of the terminal.
Newly occupied rooms can be distinguished from other rooms by color
And the time to enter each room corresponds to each room position.
Display Location confirmation system
M

7. Use of detector arrays to detect cessation of motion

US6462663B1 | Infrared Integrated Systems Ltd

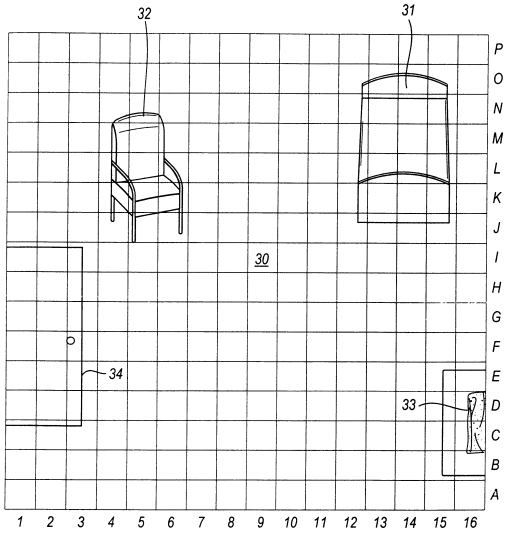
Bibliographic data

Publication date: 2002-10-08
Application date: 1999-11-22
Earliest priority date: 1998-11-26

Inventors: WILSON BRYAN LORRAIN HUMPHREYS, HOLLOCK STEPHEN, PORTER STEPHEN GEORGE

CPC classification: G08B 21/0415, G08B 21/0476, Y10S 250/01
IPC classification: G08B 21/04, G08B 29/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

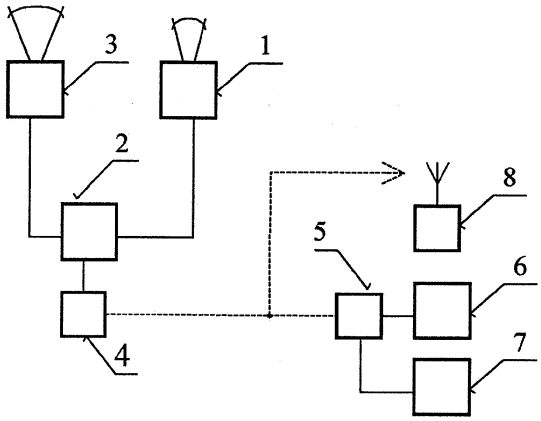
A sensor comprising an array of detectors for e.g. infrared radiation of the type for use in security or surveillance application has means for identifying the entry of an object into a first selected area of a scene and means for generating a warning or alarm signal after a first predetermined period of time during which there is no movement of the body within the first selected area.

First claim

A sensor comprising a two-dimensional array of detectors, optical collection means arranged so that the spatial information from the scene is focused onto the array, read-out means for monitoring signals from the detectors of the array, means responsive to said readout means for identifying the entry of an object into first selected area of the scene and means for generating a warning signal after a first predetermined period of time during which there is no movement of the object within or near to the first selected area.

8. Wiring for data network documented indication of presence of persons and animals

CZ10114U1 | HALAMKA JOSEF



Bibliographic data

Publication date: 2000-06-20
Application date: 2000-03-13
Earliest priority date: 2000-03-13

Inventors: HALAMKA JOSEF

CPC classification:
IPC classification: G08B 1/08, G08B 13/22, G08B 13/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

First claim

PROTECTION REQUIREMENTS
Connection for a documented indication of the presence of persons and game over a data network, characterized in that to a computer (2) with appropriate technical and program
20, connected to the input (4) of the telephone and / or computer network, the motion sensors (1) and the audio-visual sensors (3) are connected, the multimedia computer (6) with appropriate software or computer (7) and activated device (8) for receiving SMS messages.

9. Home monitoring method and device using an answering machine

KR19990000135A | 윤종용, 삼성전자 주식회사

Bibliographic data

Publication date: 1999-01-15
Application date: 1997-06-03
Earliest priority date: 1997-06-03

Inventors: 류영무

CPC classification:
IPC classification:

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

end. The technical field to which the invention described in the claims belongs

First claim

In the home monitoring method for use in a group house,
When a resident of a home is absent, the user detects whether there is a movement of a human body inside or outside the home by using an infrared sensor installed in the answering machine of the home, and if detected, dials a registered telephone number. And notifying the fact to the dialed counterpart.

10. Determining a value according to a statistical operation in a monitored living area

US8321562B2 | Intel GE Care Innovations LLC

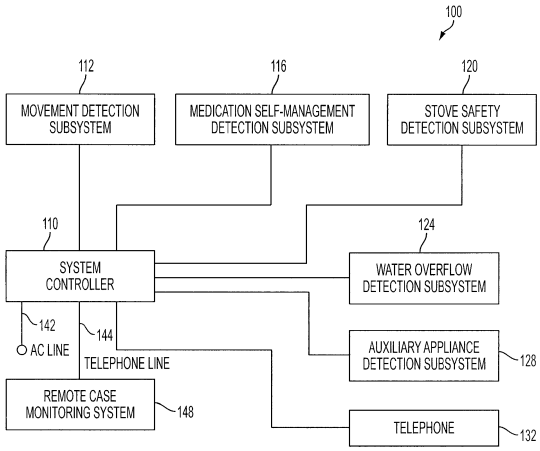
Bibliographic data

Publication date: 2012-11-27
Application date: 2011-03-31
Earliest priority date: 1994-12-23

Inventors: KUTZIK DAVID M, GLASCOCK ANTHONY P

CPC classification: G08B 21/0423, G08B 21/0484, G16H 20/13, G16H 20/70, G16H 40/67, G16H 50/30
IPC classification: G06F 11/00, G06F 15/173

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A method for monitoring a user in a user living area in a system including a system controller having control parameters for controlling the operations of said system and a remote monitoring site, comprising; monitoring a user activity of said user; activating a control circuit in response to an occurrence of said user activity to provide user activity information to said system controller representative of said user activity; performing a statistical operation upon said user activity information to provide a statistical determination; and adjusting at least one of said control parameters in accordance with said statistical determination.

First claim

A method for monitoring a user in a user living area in a system including a system controller having control parameters for controlling the operations of said system and a remote monitoring site, comprising;
monitoring occurrences of a user activity to provide monitored activity occurrences;
activating a control circuit in response to said monitored activity occurrences to provide monitored user activity occurrence information to said system controller representative of said user activity;
performing at least one statistical operation upon said monitored user activity occurrence information, said statistical operation including a central tendency determination, a dispersion determination or a moving average determination, to provide a statistical determination including an expected value of said monitored user activity occurrence information;
activating said control circuit in response to a further monitored occurrence of said user activity to provide a further value of said monitored user activity information;
comparing said expected value of said monitored user activity occurrence information and said further value of said monitored user activity occurrence information; and
adjusting at least one of said control parameters in accordance with said comparing, whereby said at least one of said control parameters is adjusted in accordance with said statistical determination.

11. Portable motion detector and alarm system and method

US6828909B2 | Guardit Technologies LLC

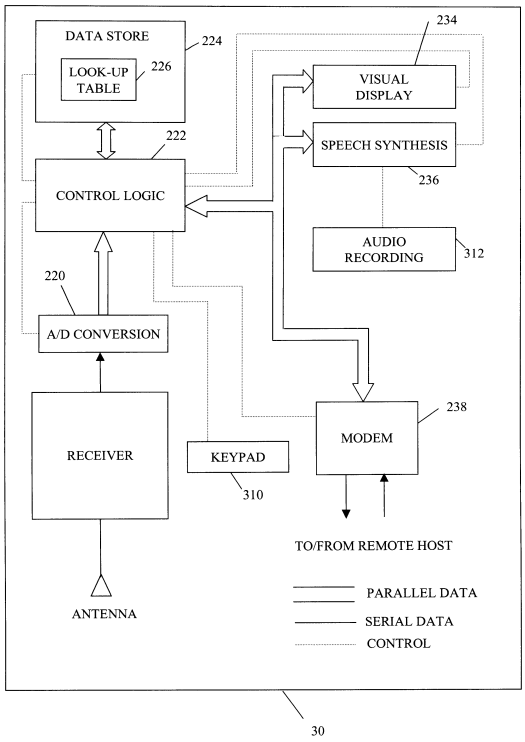
Bibliographic data

Publication date: 2004-12-07
Application date: 2002-04-08
Earliest priority date: 1996-05-30

Inventors: SCRIPT MICHAEL H, SCRIPT HENRY J

CPC classification: G08B 13/08, G08B 13/22, G08B 25/008
IPC classification: G08B 13/08, G08B 13/22

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

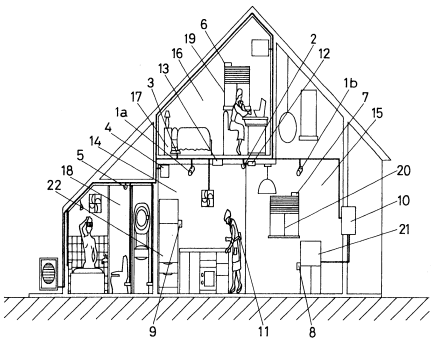
A portable security alarm system which can be installed on a temporary basis and removed from an object whose movement is to be detected including a motion detecting and radio signal transmitting member for mounting proximate the object whose movement is to be detected, a member for selectively coupling and decoupling the motion detecting and radio signal transmitting member relative to the object whose movement is to be detected, a combined radio signal receiving and alarm generating member for receiving a signal from the combined motion detecting and radio signal transmitting member and producing an alarm, a remote control for actuating and deactuating the radio signal receiving and alarm generating member, and components for providing object identification information identifying the object whose movement is to be detected and distance measurement information for measuring the distance moved by the object.

First claim

A portable security alarm system for detecting the movement of an object and providing information relative to said movement, said system comprising a motion sensor adapted to detect movement of an object and provide an indication of said movement including a unique identifier associated with said sensor, a transmitter associated with said sensor and adapted to wirelessly transmit a predetermined signal containing said indication, and a local receiver at or near the site of the object adapted to receive said predetermined signal, to process said unique identifier for local or remote conversion to associated object identification information that identifies said object, and to visually or audibly output said object identification information.

12. Behavior determining apparatus, care system, care residence and behavior information specifying apparatus and system

US6796799B1 | Matsushita Electric Industrial Co Ltd



Bibliographic data

Publication date: 2004-09-28
Application date: 2000-07-21
Earliest priority date: 1999-07-23

Inventors: YOSHIIKE NOBUYUKI, HATTORI AKIYOSHI, MORINAKA KATSUYA, INOUE SHIGEYUKI, TANAKA SHINJI

CPC classification: G08B 21/0423, G08B 21/0446, G08B 21/0453, G08B 21/0469, G08B 21/0476, G08B 21/0484, G08B 21/0492, G16H 40/67, G16H 50/20
IPC classification: G08B 21/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A behavior determining apparatus, has first detective means for detecting the behavior of a given subject person;

First claim

A behavior determining apparatus, comprising:
first detective means for detecting behavior of a given subject person, said first detective means including an infrared ray sensor for detecting movement of said subject person;
second detective means for detecting operation of a given appliance;
recording means for recording one or more combined patterns of behavior of said subject person and operation of said appliance;
determining means for comparing said behavior of said subject person detected by said first detective means and said operation of said appliance detected by said second detective means with patterns recorded in said recording means to determine whether or not a combination of behavior of said subject person and operation of said appliance substantially accords with any of said patterns;
output means for outputting a determined result of said determining means;
first transmitter/receiver means, disposable on a ceiling above a doorway which divides at least two areas, for transmitting a radio wave to a given space when said infrared ray sensor detects said behavior, and for receiving an information item by another radio wave; and
second transmitter/receiver means bearable by said subject person, said second transmitter/receiver means including a personal information terminal (PIT) for receiving the radio wave transmitted by said first transmitter/receiver means and responding by transmitting said information item including an ID number identifying said subject person who has said PIT by said another radio wave; wherein the radio wave transmitted by said first transmitter/receiver means includes a command to allow said PIT to transmit said information item,
said first transmitter/receiver means receives said ID number when transmitted by said second transmitter/receiver means, and
said first detective means specifies said subject person whose behavior is detected when said ID number is received by said first transmitter/receiver means.

13. Activity monitors

EP0608948A2 | Minister of Agriculture Fisheries and Food UK

Bibliographic data

Publication date: 1994-08-03
Application date: 1994-01-24
Earliest priority date: 1993-01-26

Inventors: PEARSON COLIN CHARLES, BARNES ROBIN NOEL

CPC classification: A01K 29/005, A61B 2503/40, A61B 5/1105, G01P 13/00
IPC classification: A01K 29/00, A61B 5/11, G01P 13/00

External links: Google Patents, Espacenet, EP Register, PatBase Express, PatBase, Orbit

Abstract

According to one aspect of the present invention a method of monitoring activity of at least one animate being includes the steps of monitoring the being with a detector (10) such as a dual element pyro-electric sensor capable of detecting movement and of recording on a logging device (12), at predetermined intervals, the presence or absence of movement. The logging device (12) preferably contains means for averaging the records over a predetermined time scale and of storing the average in a memory. By repeating this process over a period of time a record of the being's activity can be obtained.

First claim

A method of monitoring activity of at least one animate being including the steps of monitoring the being with a detector capable of detecting movement and of recording on a logging device, at predetermined intervals, the presence or absence of movement.

14. INACTIVITY ALARM: INFRARED SENSOR DETECTS CESSATION OF MOVEMENT

NZ270882A | MOORE GRAEME

Bibliographic data

Publication date: 1997-06-24
Application date: 1995-04-06
Earliest priority date: 1995-04-06

Inventors: MOORE GRAEME

CPC classification:
IPC classification: G08B 21/00, G08B 13/18, G08B 25/00, G08B 25/08, A62B 33/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

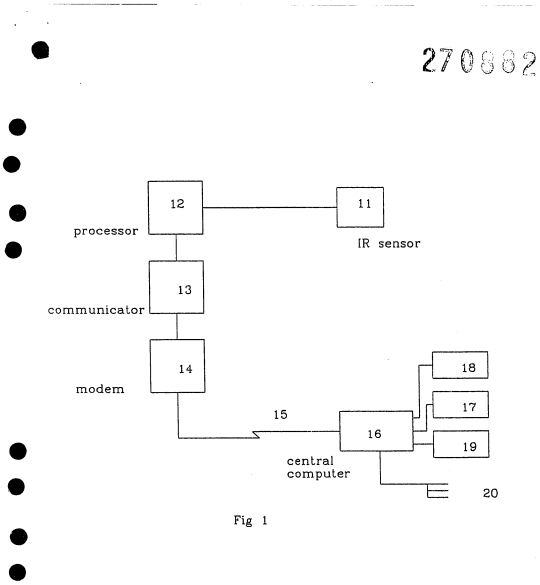


Fig 1

Abstract

First claim

1/0 882 4. An inactivity sensing system as claimed in any preceding claim wherein the warning means comprises: a modem, responsive to the timer and adapted to send a notifying signal to a central monitoring facility by means of a communications network. 5. An inactivity sensing system as claimed in claim 4 wherein the notifying signal is adapted to identify the particular location of the movement sensing system. 6. An inactivity sensing system as claimed in any one of claims 4 or 5 wherein the notifying signal is adapted to include data relating to a person who is being monitored, such data including medical condition, treatment required and which facility to notify when an alarm condition is triggered. 7. An inactivity sensing system as claimed in any preceding claim wherein the central monitoring facility is geographically remote firom the movement sensing 8. An inactivity sensing system substantially as herein described and with reference to the accompanying drawings. means. MR GRAEME MOORE By his Attorneys BALDWIN. SON & CAREY ASPEC61806 END OF CLAIMS

15. Living behavior remote confirmation device and living behavior remote confirmation system

JP3852870B2 | 有限会社 福祉システム研究所

Bibliographic data

Publication date: 2006-12-06
Application date: 1997-03-07
Earliest priority date: 1997-03-07

Inventors: 太田 茂, 田中 昌昭, 藤原 佳代, 岸本 俊夫, 市田 浩三

CPC classification:
IPC classification: G08B 21/00, H04M 11/04, G08B 21/22, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

(57) [Summary] [Problem] Living behavior that enables monitoring of health and ensuring safety of residents by not always carrying a transmitter, eliminating operation of equipment, and adopting a judgment method based on statistical indices. Provide a remote verification device. A living activity remote confirmation device according to the present invention includes a plurality of human detection sensors installed in a house, a transition matrix and a distribution function for determining living activities of the residents from sensor detection data. And the like, and the present index is compared with a plurality of past indexes. If the predetermined condition is not satisfied, it is determined that "it is not normal" and the center is notified via the modem 3. It consists of a home monitor device 1. In addition, the center device 6 receives the notification, processes it, and displays it.

First claim

Sensor means for detecting the presence of a person installed in and around the residence to be monitored,
Information output means connected to the home monitor processing means;
A transition matrix, which is data representing the number of times a person moves from a source location in a residence to a destination location in a residence for a predetermined period, obtained from the detection results of the plurality of sensor means , is the same kind of data for the past multiple days And at-home monitor processing means for outputting information “unusual” to the information output means. Living activity remote confirmation device.

16. Video based system and method for detecting and counting persons traversing an area being monitored

US6697104B1 | CountWise LLC

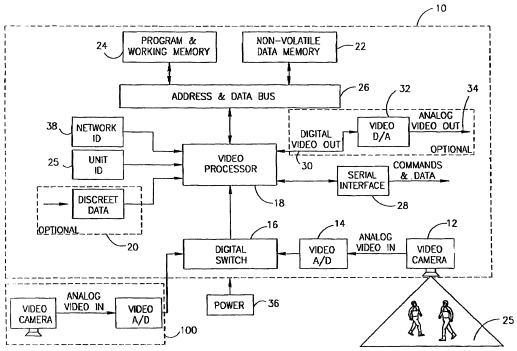
Bibliographic data

Publication date: 2004-02-24
Application date: 2000-01-13
Earliest priority date: 2000-01-13

Inventors: YAKOBI RON, TOPAZ DOV

CPC classification: G07C 9/00, G08B 13/19606, G08B 13/19619, G08B 13/19632, G08B 13/19656
IPC classification: G07C 9/00, G08B 13/194

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A video based system and method for detecting and counting persons traversing an area being monitored is provided. The method includes the steps of initialization of at least one end unit forming part of a video imaging system, the end unit having at least one camera installed therein, the camera producing images within the field of view of the camera of at least part of the area being monitored, the end unit includes at least a non-volatile memory unit and a working memory unit, the non-volatile data memory unit includes a plurality of counters; digitizing the images and storing the digitized images in at least one of the non-volatile memory unit and a working memory unit; detecting objects of potential persons from the digitized images; comparing the digitized images of objects detected in the area being monitored with digitized images stored in the working memory unit to determine whether the detected object is a new figure that has entered the area being monitored or whether the detected object is a known figure, that has remained within the area being monitored and to determine that a figure which was not detected has left the area being monitored; and incrementing at least one of the plurality of counters with an indication of the number of persons that have passed through the area being monitored.

First claim

A method for detecting and counting persons traversing an area being monitored comprising:
initialization of at least one end unit forming part of a video imaging system, said end unit having at least one camera installed therein, said camera producing images within the field of view of the camera of at least part of the area being monitored, said end unit comprising at least a non-volatile memory unit and a working memory unit, the non-volatile data memory unit comprising a plurality of counters;
digitizing said images and storing said digitized images in at least one of said non-volatile memory unit and a working memory unit;
detecting objects of potential persons from said digitized images;
comparing the digitized images of objects detected in the area being monitored with digitized images stored in the working memory unit to determine whether the detected object is a new figure that has entered the area being monitored or whether the detected object is a known figure, that has remained within the area being monitored and to determine that a figure which was not detected has left the area being monitored;
incrementing at least one of said plurality of counters with an indication of the number of persons that have passed through the area being monitored,
wherein said initialization step comprises the step of determining the optimum pixel scale (Pscale) required for processing in accordance with the formula:

17. System for maximizing the effectiveness of care giving

US8682952B2 | Intel GE Care Innovations LLC

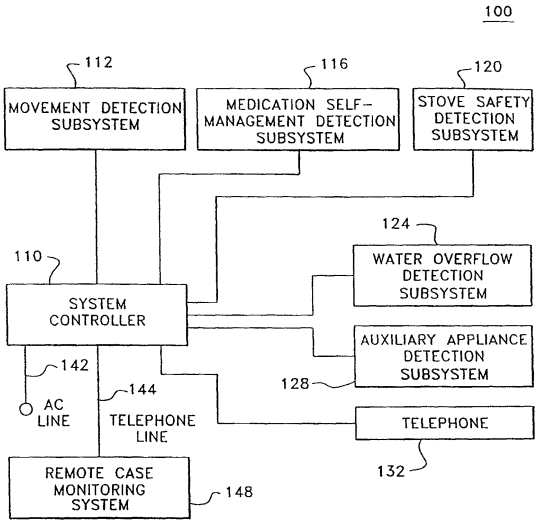
Bibliographic data

Publication date: 2014-03-25
Application date: 2007-06-14
Earliest priority date: 2000-11-09

Inventors: KUTZIK DAVID, GLASCOCK ANTHONY P

CPC classification: G08B 21/02, G08B 21/0453, G08B 21/0461, G08B 21/0484, G16H 40/20, G16H 40/67
IPC classification: G06F 15/16

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A method for determining the performance of a caregiver in a monitoring system for monitoring a user in a user living area the monitoring system including a remote monitoring site, including monitoring the user living area to detect an occurrence of an event to provide a detected event, providing event information representative of the detected event and determining a response of the caregiver to the detected event to provide caregiver response information. The event information and the caregiver response information are transmitted to the remote monitoring site.

First claim

A method for determining the performance of a caregiver, the method being implemented in a computer that includes one or more processors, the method comprising:
monitoring, by the one or more processors, a user living area associated with a user using a first set of one or more sensors;
generating, by the one or more processors, information related to the user's need for medical care based on the monitoring;
obtaining, by the one or more processors, current caregiving information related to one or more current actions taken by a caregiver or a sequence of the one or more current actions, wherein the one or more current actions are taken by the caregiver in response to the information related to the user's need for medical care;
generating, by the one or more processors, an emic protocol based on historical caregiving information related to one or more past actions taken by the caregiver or the sequence of the one or more past actions, wherein the one or more past actions were taken by the caregiver in response to the information related to the user's need for medical care;
comparing, by the one or more processors, the current caregiving information to the emic protocol;
determining, by the one or more processors, the performance of the caregiver based on the comparison.

18. System for generating periodic reports generating trend analysis and intervention for monitoring daily living activity

US6108685A | Behavioral Informatics Inc

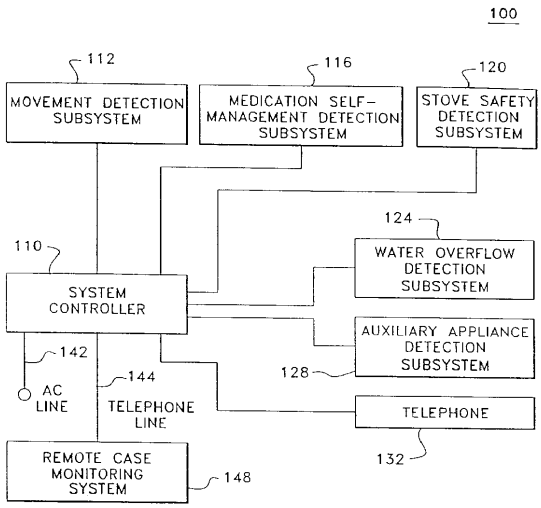
Bibliographic data

Publication date: 2000-08-22
Application date: 1997-11-18
Earliest priority date: 1994-12-23

Inventors: KUTZIK DAVID M, GLASCOCK ANTHONY P, CHUTE DOUGLAS L, HEWETT THOMAS T, HORNUM BARBARA G

CPC classification: G08B 21/0423, G08B 21/0469, G08B 21/0484
IPC classification: G08B 21/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A system is provided for monitoring a user in a user living area. The system includes a system controller and an activity detection subsystem. The activity detection subsystem monitors a daily living activity of the user and provides information representative of the daily living activity to the system controller. The system controller includes a control circuit which generates a control signal in response to the daily living activity information obtained by the activity detection subsystem. Control information from the system controller is applied by way of a control information communication channel both to the activity detection subsystem and to a remote monitoring site. The activity detection subsystem may be a system for determining the movement of the user around the home, medication compliance by the user, problems with usage of stoves or other potentially dangerous appliances, and selected auxiliary appliances.

First claim

A system for monitoring a user in a user living area, said system including a remote monitoring site comprising;
a system controller;
an activity detection subsystem decoupled from the user for monitoring a daily living activity of said user independently of physiological measurements, said activity detection subsystem having at least one detector device capable of being activated in response to an occurrence of said daily living activity and capable of determining at said user living area that said daily activity has occurred to provide information to said system controller representative of said daily living activity, said system controller having a control circuit for generating a control signal in response to said information representative of said daily living activity;
a control information communication channel for applying said control signal to said remote monitoring site;
a report generator for generating a scheduled periodic report on said daily living activity, said report having collections of said information representative of a selected daily living activity; and
circuitry for intervening in said user living area in accordance with said scheduled periodic report.

19. BEHAVIOR REMOTE MONITOR SYSTEM AND H SYSTEM

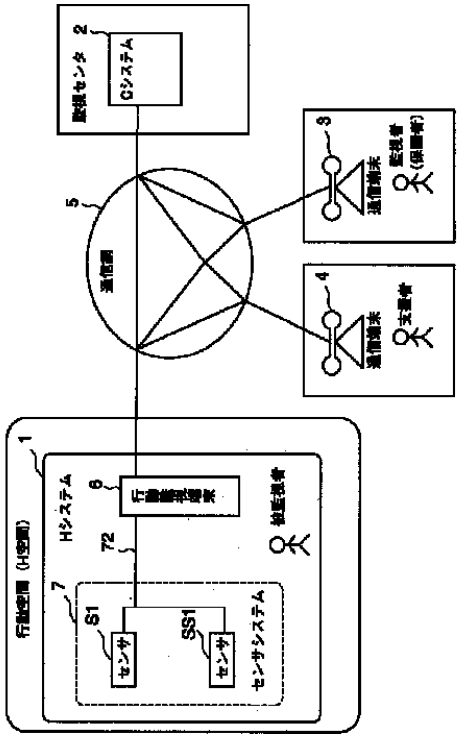
JP2001052277A | Systec KK

Bibliographic data
Publication date: 2001-02-23
Application date: 1999-08-05
Earliest priority date: 1999-08-05

Inventors: MASUDA YOSHIO

CPC classification:
IPC classification: G08B 25/10, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

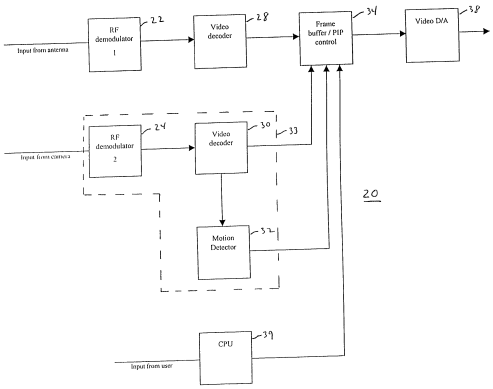


Abstract
PROBLEM TO BE SOLVED: To actualize a behavior remote monitor system and an H system which monitors a person who needs to be always monitored such as an aged person whose health change is concerned about and who lives alone, indirectly detects the health state of the monitored person becoming worse without letting the monitored person know that the monitored person is being monitored, and notifies a monitor and a helper who is concerned about the health of the monitored person such as the guardian of the monitored person. SOLUTION: This system is equipped with an H system installed in the behavior space of the monitored person A and a C system installed in a monitor center. Sensors are installed in the behavior space of the monitored person (A) and a behavior monitor terminal while recording the outputs of each of the sensors together with time information and storing them in a behavior space data memory transfers the outputs to the C system connected through a communication network; and the C system analyzes the behavior of the monitored person according to the transferred data. An alarm determined according to the analysis result is reported to the monitor and helper. The H system is able to operate alone.

First claim
An H system installed in an activity space of a monitored person who needs to be monitored, and a C system installed in a monitoring center, wherein the H system, the C system, and a monitored person of the monitored person are provided. And a communication terminal capable of contacting a supporter and the like, in a behavior remote monitoring system interconnected via a communication network, wherein the H system includes one or more sensors installed in the behavior space. An activity monitoring terminal that inputs an output of the sensor and performs a predetermined monitoring process, wherein the activity monitoring terminal includes at least an activity space data memory that records the output of the sensor together with time information; An automatic signal transceiver for transferring data memory contents to the C system connected by a communication network, wherein the C system includes at least one of the received action space data memories. A behavior data memory for storing the contents of the subject, a behavior pattern memory for previously storing a pattern generated by a steady behavior of the monitored person, a behavior analysis means for analyzing the monitored person's behavior, and at least connected to the communication network. An automatic signal transceiver for notifying the communication terminal, and analyzing the contents of the action data memory by referring to the contents of the action pattern memory by the action analysis means,
A behavior remote monitoring system, wherein an alert determined by an analysis result of the behavior analysis means is notified to the communication terminal.

20. Remote monitoring via a consumer electronic appliance

US20020071031A1 | Philips Electronics North America Corp



Bibliographic data

Publication date: 2002-06-13
Application date: 2000-12-07
Earliest priority date: 2000-12-07

Inventors: LORD WILLIAM PALMER, CATAN CAROLYN RAMSEY, MARMAROPOULOS GEORGE

CPC classification: G08B 21/0208, G08B 21/0294, H04N 7/18
IPC classification: G08B 21/02, H04N 7/18, H04N 5/45, H04Q 9/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A system for monitoring the activity of an object at a remote location, includes a consumer electronic appliance having a first input for receiving data indicative of a program and a second input for receiving data indicative of the activity of the object. An activity sensor placed at the remote location senses the activity of the object and transmits data indicative of the activity to the second input of the consumer electronic appliance. The consumer electronic appliance may include an activity detector that measures the activity of the object in the object data. The activity detector may automatically cause the consumer electronic appliance to present the activity of the object if the measured activity meets a predetermined activity threshold. The consumer electronic appliance may also enable the user to momentarily observe the activity of the object or continuously monitor the activity of the object.

First claim

A system for monitoring the activity of an object at a remote location, the system comprising:
a consumer electronic appliance having a first input for receiving data indicative of a program and a second input for receiving data indicative of the activity of the object;
an activity sensor to be placed at the remote location, the activity sensor for sensing the activity of the object and transmitting data indicative of the activity to the second input of the consumer electronic appliance;
the consumer electronic appliance being operative in a first mode to enable a user to continuously monitor the activity of the object.

21. FACILITY INSIDE MONITORING SYSTEM

JP2001236578A | Next KK

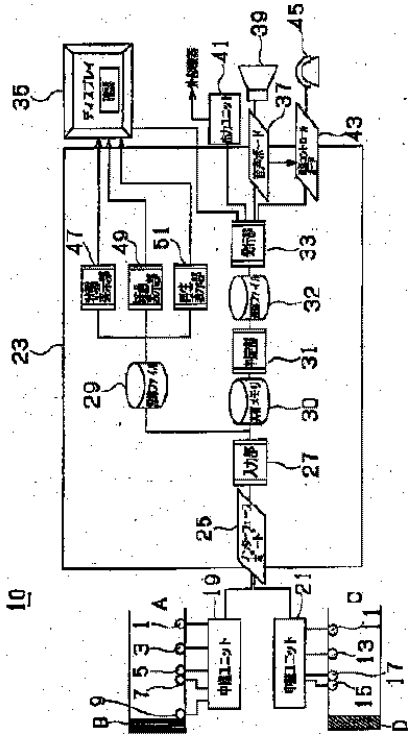
Bibliographic data

Publication date: 2001-08-31
Application date: 2000-02-18
Earliest priority date: 2000-02-18

Inventors: KITAMI NAOKI

CPC classification:
IPC classification: G08B 21/02, G08B 25/00, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

PROBLEM TO BE SOLVED: To provide an inexpensive facility inside monitoring system, which can sufficiently protect the privacy of a monitoring object person and further improves the reliability of a danger report. SOLUTION: Two first human body detecting sensors 1 and 3 are located along a passage A, and a second human body detecting sensor 5 is provided on the side of a ladder B of the first human body detecting sensor 3. An identification detecting sensor 7 is provided continuously to the side of the ladder B of the second human body detecting sensor 5 and a third human body detecting sensor 9 is provided closely to the ladder B. The presence/absence of dangerous action is predicted from the detected results of the respective sensors 1, 3, 5, 7 and 9 with the passage of time.

First claim

An in-facility monitoring system for monitoring the behavior of a monitored person in a facility and notifying the monitored person when the monitored person performs a dangerous action, the system comprising:
A plurality of first human body detection sensors provided at predetermined intervals along the way, and the danger zone or the off-limits area where the passages are continuous and the first human body detection sensor, at an appropriate distance from the danger area or the off-limits area The second provided
A human body detection sensor and, when the second human body detection sensor detects a human body, a moving direction of the person detected by the second human body detection sensor based on temporal data of detection results of the first and second human body detection sensors. Is a danger zone or a no-go zone, and whether or not the person detected by the second human body detection sensor is a monitored person. And a notifying means for notifying an observer when it is determined that the user is moving in the direction of a dangerous area or a restricted area.

22. CRIME PREVENTION SYSTEM

JP2002133539A | National House Industrial Co Ltd

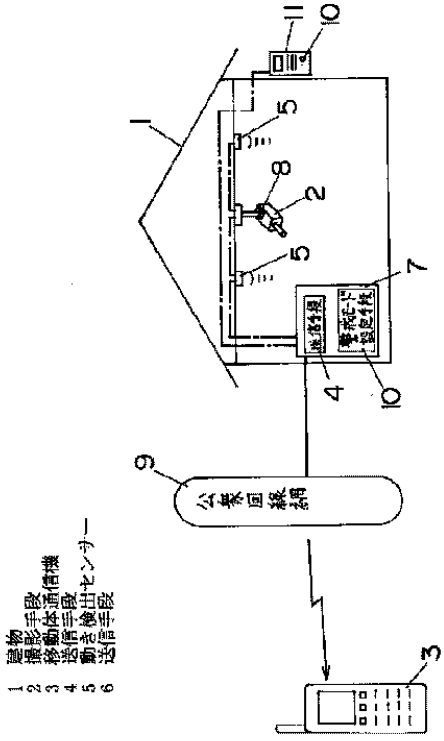
Bibliographic data

Publication date: 2002-05-10
Application date: 2000-10-23
Earliest priority date: 2000-10-23

Inventors: MIKAMI SHINICHI, YOKOYAMA KATSUMI

CPC classification:
IPC classification: H04N 7/18, G08B 13/19, G08B 13/194, H04W 4/90

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

(57) [Summary] [Problem] To enable a building manager to accurately judge the presence or absence of an abnormality by looking at an image taken by a photographing means with a mobile communication device, and to take appropriate security action when there is an abnormality. Provide a security system. SOLUTION: A photographing means 2 for photographing a situation of a monitoring area of a building 1 and a transmitting means 4 for transmitting image data photographed by the photographing means 2 to a mobile communication device 3 owned by a building manager are provided.

First claim

A security system comprising: photographing means for photographing a situation in a monitored area of a building; and transmitting means for transmitting image data photographed by the photographing means to a mobile communication device owned by a building manager..

23. Facility monitoring system

JP4443710B2 | 株式会社ベーシック

Bibliographic data

Publication date: 2010-03-31
Application date: 2000-02-21
Earliest priority date: 2000-02-21

Inventors: 渡辺 良男

CPC classification:
IPC classification: G08B 21/02, G08G 1/00, G08G 1/01, H04Q 9/00, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

PROBLEM TO BE SOLVED: To provide an inexpensive monitoring system for the inside of facility, which can sufficiently protect the privacy of a monitoring object person and further improves the reliability of a danger report. SOLUTION: Two first human body detecting sensors 1 and 3 are located along a passage A, and a second human body detecting sensor 5 is provided in the side of a ladder B of the first human body detecting sensor 3. An identification detecting sensor 7 is provided continuously to the side of the ladder B of the second human body detecting sensor 5 and a third human body detecting sensor 9 is provided closely to the ladder B. The presence/absence of dangerous action is predicted from the detected results of the respective sensors 1, 3, 5, 7 and 9 with the passage of time.

First claim

Facility for notifying the supervisor when a resident who needs to be monitored, such as an elderly person entering the facility, moves along the passage in the facility and tries to enter a dangerous area where the passage is connected. An internal monitoring system,
A plurality of first human body detection sensors provided at a predetermined interval along the passage ;
A second human body detection sensor provided between the dangerous area and the first human body detection sensor at an appropriate distance from the dangerous area ;
When the second human body detection sensor detects the human body, the opposite side or al the first and second human body detection sensor is the danger zone, at set predetermined time intervals, whether sequentially or has detected the human body A determination means for determining whether or not
The second human body detection sensor detects the human body, and the first and second human body detection sensor by the determining means, wherein at predetermined time intervals, sequentially, monitoring if it is determined that detected the human body An in-facility monitoring system comprising a reporting means for reporting to a person.

24. Device for monitoring a person in their home

GB2348725A | DOUGHTY KEVIN

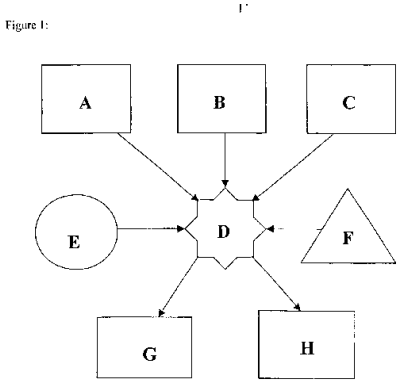
Bibliographic data

Publication date: 2000-10-11
Application date: 1999-04-07
Earliest priority date: 1999-04-07

Inventors: DOUGHTY KEVIN

CPC classification: G08B 21/043, G08B 21/0469, G08B 21/0492
IPC classification: G08B 21/04, G08B 21/02

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

The challenge of maintaining a person's independence in the community is difficult when that person suffers from confusion or the early stages of dementia. The risk of accident of accident becomes very high due to the loss of cognitive function and ability to recognise dangers. This risk may be further increased if the individual tends to wander outside the home during the hours of darkness when there will be few people about to provide help. It is therefore necessary to advise confused people not to go out at night and, if they do go out, inform the relevant authorities or carers so that they can be brought back home. The present invention is an integrated and intelligent device based on sensors which is installed in the home rather than on the person. Consequently, it is not related to the electronic tags employed to restrict the movements of prisoners who have released from jail prematurely. This device comprises a plurality of sensors to detect movement close to the exit door. According to the sequence of detection by the sensors and to the time of day or other programmed parameters, the device provides reminders that the person should not go out. If they do go out then this is action is also detected by the sensors and, when appropriate, is used to inform carers. The device is particularly suited to application with a community alarm telephone system.

First claim

Claims 1. An integrated and dedicated electronic social care device for supporting a confuse person in their own home, and employing some or all of the. following elements :
2 or more independent sensors which provide détection of mouvement about an exit door, a real-time clock, a programmable decision processor, an output device or devices.

25. System and method for providing configurable security monitoring utilizing an integrated information portal

US6542075B2 | Vigilos Inc

Bibliographic data

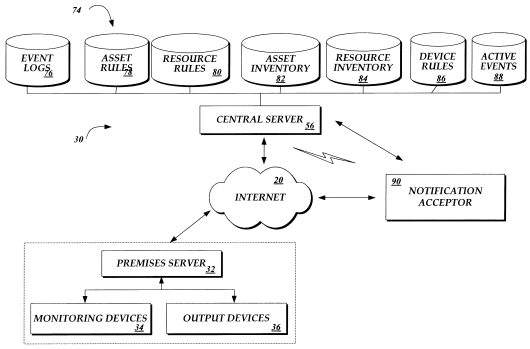
Publication date: 2003-04-01
Application date: 2001-01-16
Earliest priority date: 2000-09-28

Inventors: BARKER GEOFFREY T, ALEXANDER BRUCE, TALLEY PAUL

CPC classification: G07C 2209/08, G07C 9/27, H04L 41/0893, H04L 41/18, H04L 41/22, H04L 43/16, H04L 67/025, H04L 67/08, H04L 67/34, H04L 69/329

IPC classification: H04L 12/24, H04L 12/26, H04L 29/08, H04L 29/06

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A system and method for implementing a configurable security monitor utilizing an integrated information portal are provided. A premises server is in communication with a variety of information sources that produce monitoring data for a defined monitoring target, such as a premises. The premises server transmits the monitoring data to a central server that receives the data and traverses one or more logical rule sets to determine whether the inputted data violates the rules. The rules are generally specified by a user, such as a system administrator to define the level of monitoring desired and an appropriate response in the evaluation of the monitoring data against the rule. Based on an evaluation of the rules, the central server then generates outputs in the form of communication to one or more authorized users via a variety of communication mediums and devices and/or the

First claim

In an integrated information portal in communication with a number of monitoring devices, wherein the integrated information portal includes a first set of monitoring rules for establishing an event threshold for a rule violation and a corresponding response, a method for managing monitoring device data, the method comprising:
obtaining a second set of monitoring rules for establishing an event threshold for a rule violation and a corresponding response, wherein the second set of monitoring rules corresponding user defined monitoring rules provided concurrently with the processing of monitoring device data;
obtaining monitoring device data from one or more of the monitoring devices;
dynamically processing the monitoring device data according to the declarative user defined monitoring rules; and
generating an output corresponding to the dynamic processing of the declarative user defined monitoring rules, when the output may include no output.

26. Living behavior remote confirmation device and living behavior remote confirmation system

JP3813024B2 | 有限会社 福祉システム研究所

Bibliographic data

Publication date:	2006-08-23
Application date:	1998-09-09
Earliest priority date:	1998-09-09
Inventors:	太田 茂, 田中 昌昭, 藤原 佳代, 岸本 俊夫, 市田 浩三
CPC classification:	G08B 21/0423
IPC classification:	G08B 21/04, G08B 21/00, G08C 19/00, H04L 12/24, H04L 12/26, G08B 29/18, H04Q 9/00, G08B 21/22, G08B 25/08, G08B 25/04, G08C 13/02
External links:	Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

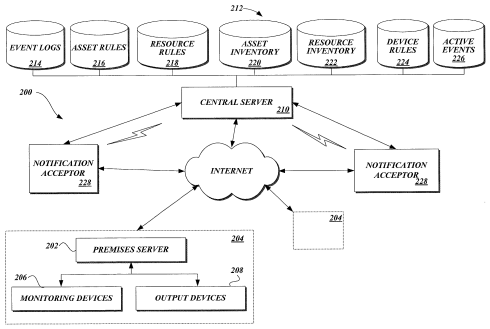
(57) [Summary] [Problem] To provide a living behavior remote confirmation system that enables monitoring of health and safety of residents by adopting a judgment method based on a statistical index. SOLUTION: An in-home device 1 captures output data of a plurality of sensors 2 for detecting a person installed in a house, and obtains an index such as a transition matrix or a distribution function for determining a living behavior of the inhabitant. By comparing the present index with a plurality of past indexes, if the predetermined condition is not satisfied, it is determined that the condition is not normal, and the monitor devices 4 and 5 are connected to the monitor devices 4 and 5 via a communication network such as the Internet. report. The monitoring devices 4 and 5 receive the notification, process it, and display it. According to the present invention, the reliability of the alarm is improved.

First claim

Sensor means for detecting the presence of a person installed in a house to be monitored,
A distribution function generating means for performing a weighted moving average on a histogram indicating frequency data of sensor response times per predetermined time in the sensor means, and obtaining a smoothed distribution function;
DP matching is performed on the current distribution function and the past distribution function to obtain a distance. When the distance is less than a predetermined value and the number of days is less than or equal to the predetermined value, it is determined as “not normal”. And a determination means for outputting the information “not”.

27. System and method for processing video data utilizing motion detection and subdivided video fields

US20020104094A1 | OLIVISTAR LLC



Bibliographic data

Publication date: 2002-08-01
Application date: 2001-12-03
Earliest priority date: 2000-12-01

Inventors: ALEXANDER BRUCE, BAHNEMAN LIEM

CPC classification: G06T 7/254, G08B 13/19602, G08B 13/19652, G08B 13/19656, G08B 13/1968, G08B 13/19682, G08B 13/19691, H04N 21/4622, H04N 21/4782, H04N 7/18

IPC classification: H04N 7/18, G06T 7/20, G08B 13/194, H04N 21/462, H04N 21/4782

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A system and method for processing digital images are provided. A control server obtains digital images from one or more digital capture devices. The digital images can be processed to detect an event, such as movement. Additionally, user-defined zones may be further utilized to exclude specific areas or limit processing to specific areas.

First claim

A method for processing image data, the method comprising:
obtaining at least one processing zone for processing digital data obtained from one or more digital capture devices, wherein the at least one processing zone corresponds to a specific geometry;
obtaining a first frame of image data corresponding to one of the digital capture devices;
obtaining a second frame of image data corresponding to the digital capture device;
determining whether there is significant change between the first and second frames within the at least one processing zone, wherein the determination of significant change is made by evaluating differential data corresponding to an adjustable parameter;
processing an event if a significant change is determined.

28. USER MONITORING SYSTEM

CA2208594C | Behavioral Informatics Inc

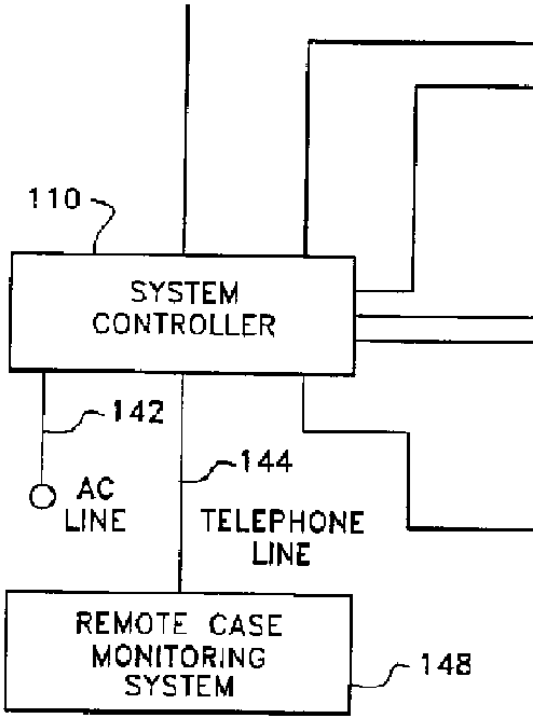
Bibliographic data

Publication date: 2000-12-05
Application date: 1995-12-21
Earliest priority date: 1994-12-23

Inventors: KUTZIK DAVID M, HORNUM BARBARA G, HEWETT THOMAS T, GLASCOCK ANTHONY P, CHUTE DOUGLAS L

CPC classification:
IPC classification: G08B 23/00, G08C 17/00, G08B 25/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A system (100) is provided for monitoring a user in a user living area. The system includes a system controller (110) and an activity detection subsystem (112, 116, 120, 124, 128). The activity detection subsystem (112, 116, 120, 124, 128) monitors a daily living activity of the user and provides information representative of the daily living activity to the system controller (110). The system controller (110) includes a control circuit which generates a control signal in response to the daily activity information obtained by the activity detection subsystem (112, 116, 120, 124, 128). Control information from the system controller (110) is applied by way of a control information communication channel both to the activity detection subsystem (112, 116, 120, 124, 128) and to a remote monitoring site (148). The activity detection subsystem (112, 116, 120, 124, 128) may be a system for determining the movement of the user around the home, medication compliance by the user, problems with usage of stoves or other potentially dangerous appliances, and selected auxiliary appliances.

First claim

A system for monitoring a user in a user living area, said system including a remote
monitoring site, comprising:
a system controller;
an activity detection subsystem for monitoring a daily living activity of the user
independently of physiological measurements, said activity detection subsystem having at least
one detector device capable of being activated in response to said occurrence of said daily living
activity and capable of determining at said user living area that said daily living activity has
occurred to provide to the system controller information representative or said daily living
activity, said system controller having a control circuit for generating a control signal in response
to said daily living activity information;

a control information communication channel for applying said control signal to said remote
monitoring site;
a report generator for generating a scheduled periodic reports on daily living activities,
said reports having collections of said information representative of selected daily living
activities;
a generator for generating a trend analysis in accordance with said reports of said
information on said daily living activities; and
means for intervening in said user living area in accordance with said trend analysis.

29. Portable motion detector and alarm system and method

US6940405B2 | Guardit Technologies LLC

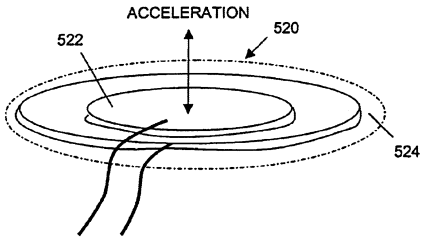
Bibliographic data

Publication date: 2005-09-06
Application date: 2003-07-03
Earliest priority date: 1996-05-30

Inventors: SCRIPT MICHAEL H, SCRIPT HENRY J

CPC classification: G01P 13/00, G08B 13/08, G08B 13/1436, G08B 13/19697, G08B 19/005, G08B 25/008, G08B 25/10
IPC classification: G08B 13/08, G08B 13/14, H01L 41/113, G08B 13/22, G01P 13/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A portable security alarm system including a movement detecting and signal transmitting member for mounting on or proximate to the object whose movement is to be detected, a signal receiving and alarm generating member for receiving a signal from the movement detecting and signal transmitting member and producing a security response, a remote control for actuating and deactuating the signal receiving and alarm generating member, an environmental monitoring member for sensing an environmental condition and providing a signal to the signal receiving and alarm generating member, a visual information gathering member for gathering visual information and providing a signal to the signal receiving and alarm generating member, an audio output member for receiving a signal from the signal receiving and alarm generating member and generating an audio output, and components for delivering a security notification to remote recipients.

First claim

A portable security alarm system for detecting the movement of an object and providing information relative to said movement, said system comprising a movement detecting and signal transmitting means for detecting movement of an object and wirelessly transmitting a predetermined signal indicating movement of said object, and a receiver means for receiving said predetermined signal and providing a security response, said movement detecting and signal transmitting means comprising an inertial sensor disposed within a vacuum environment.

30. METHOD AND APPARATUS FOR MONITORING PERSONS IN A DWELLING

WO1997025697A1 | SOMFY, VIGNOLI JEAN MARC NICOLAS, CRESPO FRANCOIS OLIVIER

Bibliographic data

Publication date: 1997-07-17
Application date: 1997-01-06
Earliest priority date: 1996-01-12

Inventors: VIGNOLI JEAN-MARC NICOLAS, CRESPO FRANCOIS OLIVIER

CPC classification: G08B 21/0469
IPC classification: G08B 21/04

External links: Google Patents, Espacenet, EP Register, Patentscope, PatBase Express, PatBase, Orbit

Abstract

A method for measuring the movement count of a person being monitored, comparing the measured count with a set value and generating an alarm signal when the measured count is lower than the set value. The monitoring apparatus includes at least one motion sensor (1) and a processing logic unit (2) linked to a telephone module (3) enabling one or more persons to be alerted. Such monitoring meets a number of needs and is particularly useful for extending the independence of elderly persons and minimising their sense of loneliness and isolation.

First claim

person monitoring method in a habita¬ tion by means of at least one motion detector, ca¬ terized by measuring by counting the fréquen¬ that its movements.

31. Method and device for monitoring persons using a motion sensing detector

EP0452194A1 | Commissariat a lEnergie Atomique CEA

Bibliographic data

Publication date: 1991-10-16
Application date: 1991-04-03
Earliest priority date: 1990-04-04

Inventors: CHAZEAUD PIERRE, ISBERIE DANIEL

CPC classification: G08B 21/0415
IPC classification: G08B 21/04

External links: Google Patents, Espacenet, EP Register, PatBase Express, PatBase, Orbit

Abstract

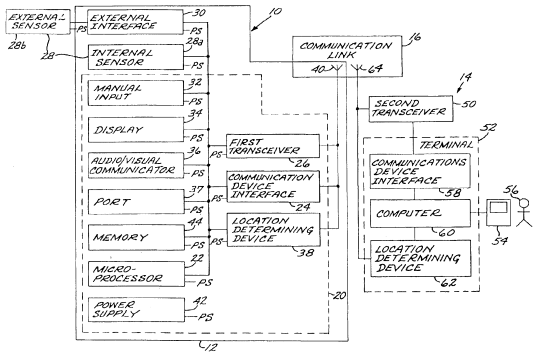
The movement detector device comprises a piezoelectric means (12) and a circuit (30) able to code the supply current of photodiodes (32) under two different forms according to whether a movement is detected or not. The diodes (32) are capable of emitting infra-red type alarm signals towards a receiving station. Application to personal surveillance.

First claim

Motion detector device for a person monitoring system, comprising, in a housing (10) capable of being fixed on a person to be monitored:
a piezoelectric means (12) comprising at least one piezoelectric blade (14) provided with a counterweight (16) at one of its ends and embedded in a fixing piece (18) at the other of its ends, this means whether or not delivering an electrical signal depending on whether the case is in motion or not;
an amplifier (22) connected to the piezoelectric means (10) and a processing circuit (30) connected to the amplifier (22);
an infrared transmitter (32) supplied by the processing circuit (30);
this device being characterized in that the processing circuit (30) is capable of delivering a current which is coded according to a first form (S1) when it receives a signal due to the movement of the housing and of delivering a current which is coded according to a second form (S2) when it does not receive a signal due to the absence of movements of the housing, the infrared emitter thus emitting infrared radiation (34) coded according to a first or a second form depending on whether the case is or is not moving.

32. Reprogrammable remote sensor monitoring system

US6940403B2 | Cardionet LLC



Bibliographic data

Publication date: 2005-09-06
Application date: 2002-11-12
Earliest priority date: 1997-03-07

Inventors: KAIL IV KARL A

CPC classification: G01S 19/17, G01S 2205/002, G08B 13/1963, G08B 13/19632, G08B 21/0211, G08B 21/0216, G08B 21/0227, G08B 21/023, G08B 21/0283, G08B 21/0294, G08B 21/245, G16H 40/63, G16H 40/67, G16H 50/20, Y10S 128/903, Y10S 128/904, Y10S 706/911, Y10S 706/924

IPC classification: G08B 21/02, G01S 5/14, H04B 7/26, G08B 26/00, G01S 19/17, G01S 19/09, G01S 19/34

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

An automated, real-time, reprogrammable monitoring and control system for portable, remote sensors and subjects includes one or more portable monitoring units, each of the portable monitoring units having a sensor, a location-determining device, and a sensor interface unit. Each sensor interface unit is separately configured to monitor its sensor and to transmit that sensor's data, via a digital wireless communications network, to a central monitoring device. The portable unit is carried or worn by a person or animal, or affixed to an inanimate subject.

First claim

Apparatus for remotely monitoring and assessing the status of a human subject, the apparatus comprising:
at least one automatic sensor associated with and monitoring the condition of the human subject; and
a portable monitoring unit capable of communicating with a central monitoring device, the portable monitoring unit comprising:
a programmable microprocessor in communication with the at least one automatic sensor, the microprocessor being responsive to the occurrence of any of a set of activating parameters, the activating parameters selected from the group consisting of a preselected state of the at least one automatic sensor and a request signal from an external source,
a first transceiver in communication with the microprocessor, for communicating signals between the microprocessor and the central monitoring device, and
a power supply connected to provide power to at least one of the microprocessor and the first transceiver.

33. Portable motion detector and alarm system and method

US7113091B2 | SCRIPT SECURITY SOLUTIONS LLC

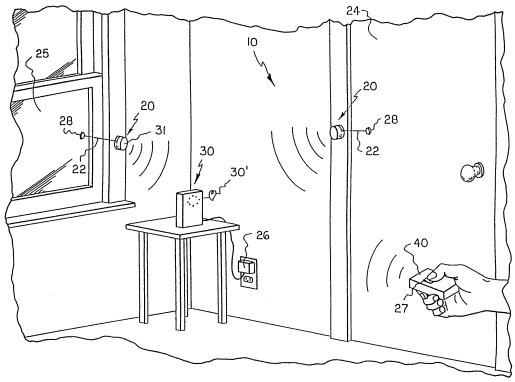
Bibliographic data

Publication date: 2006-09-26
Application date: 2004-07-02
Earliest priority date: 1996-05-30

Inventors: SCRIPT MICHAEL H, SCRIPT HENRY J

CPC classification: G08B 13/08, G08B 13/1436, G08B 25/10
IPC classification: G08B 13/08

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A portable security alarm system including a movement detecting and signal transmitting member for mounting on or proximate to the object whose movement is to be detected, a signal receiving and alarm generating member for receiving a signal from the movement detecting and signal transmitting member and producing a security response, a remote control for actuating and deactuating the signal receiving and alarm generating member, an environmental monitoring member for sensing an environmental condition and providing a signal to the signal receiving and alarm generating member, a visual information gathering member for gathering visual information and providing a signal to the signal receiving and alarm generating member, an audio output member for receiving a signal from the signal receiving and alarm generating member and generating an audio output, and components for delivering a security notification to remote recipients. A security network that includes the alarm system is also disclosed. An inertial sensor for alarm system or for activating or deactivating a device is additionally disclosed.

First claim

A portable security alarm system for detecting the movement of an object and providing information relative to said movement, said system comprising a movement detecting and signal transmitting means for detecting movement of an object and wirelessly transmitting a predetermined signal indicating movement of said object, a receiver means for receiving said predetermined signal and providing a security response, and a remote control unit comprising a radio frequency identification circuit adapted to provide remote control unit identification information to said movement detecting and signal transmitting means, and said movement detecting and signal transmitting means being adapted to provide said remote control unit identification information along with said predetermined signal to said receiver means.

34. MULTI-ACTION OBSERVATION SYSTEM

KR20010009039A | CHUNG BO YOUNG

Bibliographic data

Publication date: 2001-02-05
Application date: 1999-07-07
Earliest priority date: 1999-07-07

Inventors: CHUNG BO YOUNG

CPC classification: G01D 21/02, G06Q 90/00
IPC classification: G01D 21/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

PURPOSE: A multi-type activity monitoring system is provided to prevent missing children and monitoring children within a certain range by continuously monitoring motion state and position of the children to take a necessary steps if any problems happen in the position or motion of the children by generating a warning signal wirelessly.
CONSTITUTION: A multi-type activity monitoring system includes at least one motion state monitoring part(3) for sensing at least one of motion, temperature, pulse or environmental sound of an object to transmit the sensed one with an intrinsic code via an antenna after processing the sensed one to a living body activity data, and a central controlling and monitoring bureau(1) for recognizing a living body state and observation range from the transmitted living body activity data to generate a normal or warning signal.

First claim

What is claimed is: 1. A multi-type activity monitoring system for detecting at least one of a human and an animal to be monitored;
At least one behavior state sensing unit which senses at least one of the movement, temperature, pulse, and ambient sound of the object to be monitored and processes it into bioactivity data and transmits it to the aerial with a unique code;
And a central control monitoring station that receives the biological activity data and the corresponding unique code of the monitored object from the behavior state detecting unit, recognizes the biological state and the observation range, and generates a good and warning signal to the one. Activity monitoring system.

35. Multimedia surveillance and monitoring system including network configuration

US6970183B1 | e-Watch Inc

Bibliographic data

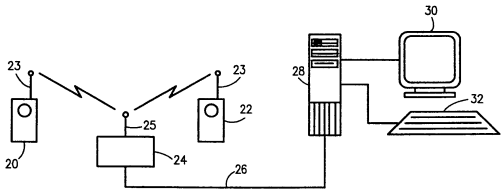
Publication date: 2005-11-29
Application date: 2000-06-14
Earliest priority date: 2000-06-14

Inventors: MONROE DAVID A

CPC classification: G08B 13/19621, G08B 13/19656, G08B 13/19658, G08B 13/19669, G08B 13/19671, G08B 13/1968, G08B 13/19684, G08B 13/19689, G08B 13/19691, G08B 13/19697, G08B 25/016, G08B 25/12, G08B 7/062, H04N 7/181

IPC classification: H04N 7/18, G08B 7/06, G08B 5/36, G08B 25/01, G08B 25/12

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A comprehensive, wireless multimedia surveillance and monitoring system provides a combination of megapixel digital camera capability with full motion video surveillance with a network, including network components and appliances such as wiring, workstations, and servers with the option of geographical distribution with various wide area carriers. The full service, multi-media surveillance system is capable of a wide range of monitoring techniques utilizing digital network architecture and is adapted for transmitting event data, video and/or image monitoring information, audio signals and other sensor and detector data over significant distances using digital data transmission over a LAN, wireless LAN, Intranet or Internet for automatic assessment and response including dispatch of response personnel. Both wired and wireless appliance and sensor systems may be employed. GPS dispatching is used to locate and alert personnel as well as to indicate the location of an event. Automatic mapping and dispatch permits rapid response. The wireless LAN connectivity permits local distribution of audio, video and image data over a relatively high bandwidth without requirement of a license and without relying on a common carrier and the fees associated therewith. The surveillance system may be interfaced with a WAN (wide area Network) or the Internet for providing a worldwide, low cost surveillance system with virtually unlimited geographic application. Centralized monitoring stations have access to all of the surveillance data from various remote locations via the Internet or the WAN. A server provides a centralized location for data collection, alarm detection and processing, access control, dispatch processing, logging functions and other specialized functions. The server may be inserted virtually anywhere in the Intranet/Internet network. The topology of the network will be established by the geographic situation of the installation. Appropriate firewalls may be set up as desired. The server based system permits a security provider to have access to the appliance and sensor and surveillance data or to configure or reconfigure the system for any station on the network.

First claim

A comprehensive, IP network compatible, multimedia surveillance and security system comprising a plurality of sensor appliances adapted to connected to a network based server for monitoring, logging, and transmitting data to the server in order to permit comprehensive surveillance of a predetermined area, the system comprising:
a. a conventional security sensor which is activated by the occurrence of an activating event and upon activation generates a signal;
b. a convertor for converting the conventional sensor signal into a network compatible signal and adapted for sending the converted signal via the network to the server;
c. a surveillance sensor appliance controlled by the server for monitoring an area and generating a signal indicating a condition in the monitored area in a programmed response mode controlled by the server, whereby the server receives and logs data transmitted by both the conventional sensor and the sensor appliance.

36. SYSTEM FOR CONFIRMING SAFETY OF AGED PERSON

JPH1091879A | TATEYAMA SYST KENKYUSHO KK, TOYAMA PREF GOV, Toyama Prefecture, Tateyama Kagaku Kogyo Co Ltd

Bibliographic data

Publication date: 1998-04-10
Application date: 1996-09-12
Earliest priority date: 1996-09-12

Inventors: TSUKAMOTO YOSHITOSHI, MUKOYAMA TOSHIHIRO, ASADA MINEO, TOUHO KIHACHIROU, YOSHIDA KAZUO, SATOU SHIGENAGA, NOZAKI YOSHIRO, HIAI JIRO, NOJIMA NOBUYUKI

CPC classification:
IPC classification: G08B 21/00, H04M 11/00, G08B 21/22, G08B 25/08, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

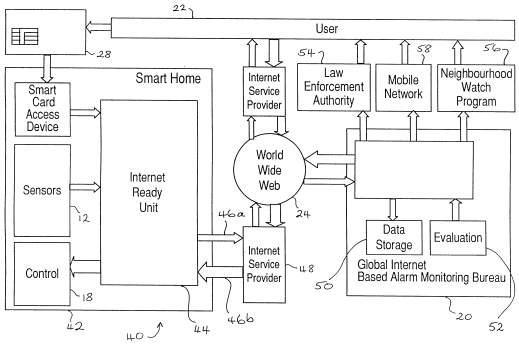
PROBLEM TO BE SOLVED: To provide an inexpensive system for confirming the safety of an aged person in which a health situation can be estimated from a living situation without violating the privacy of a resident, and it can be automatically reported to a nurse. SOLUTION: This system is provided with a human being sensor 1 attached to each room of a building which detects the movement of a resident, equipment sensor 5 attached to each kind of equipment of the building, control device 2 which fetches the outputs of the human being sensor 1 and the equipment sensor 5 as data, estimates the health situation of the resident from the data, and prepares a report to a remote nurse, and MODEM part 4 which outputs the report prepared by the control device 2 to a telephone line 3.

First claim

A human sensor (1) attached to each room of a house for detecting the movement of a resident, and taking the output of the human sensor (1) to estimate the occupant's health status from the output and to provide a remote nurse Characterized by comprising: a control device (2) for creating a report to be transmitted to a telephone; and a modem section (4) for outputting the report created by the control device (2) to a telephone line (3). Confirmation system.

37. Monitoring system

US6727811B1 | Vivint Inc



Bibliographic data

Publication date: 2004-04-27
Application date: 1999-12-29
Earliest priority date: 1999-06-25

Inventors: FENDIS GREGORY

CPC classification: G08B 25/08
IPC classification: G08B 25/08, G08B 25/01

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A method and system for of monitoring a site, the method including: monitoring the site for the occurrence of predetermined alarm condition; responding to the alarm condition by capturing a packet of alarm data; and transmitting the packet of alarm data to a remote location or to a communications network for transmission to the remote location.

First claim

A monitoring system for monitoring a site, comprising:
an alarm sensor at the site for detecting whether at least one predetermined alarm condition has occurred;
a data collection means at the site for collecting alarm data pertaining to the alarm condition and for outputting said alarm data as a discrete data packet;
data transmission means for transmitting said alarm data from said site; and
electronic data evaluation means, at a location remote from said site
for receiving said alarm data, and
for electronically evaluating said alarm data to determine whether or not said alarm data is indicative of a false alarm condition and, if said electronic data evaluation means determines that said alarm data is not indicative of the false alarm condition, forwarding said alarm data to a user or users.

38. ACTION DETECTING SYSTEM

JP2002149824A | Matsushita Electric Industrial Co Ltd

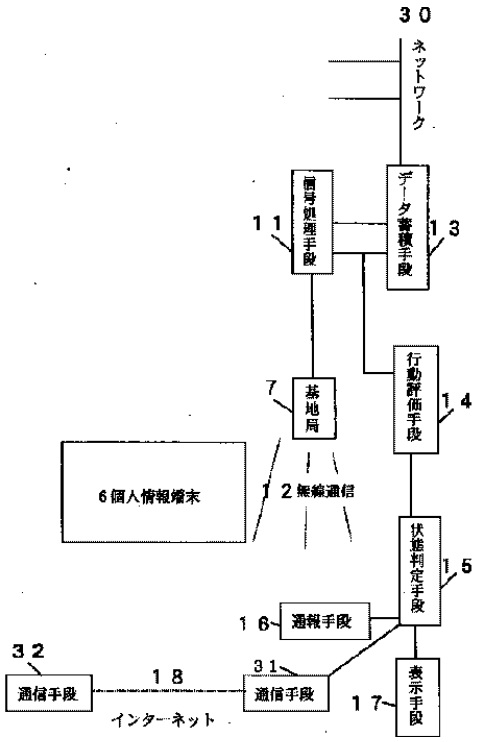
Bibliographic data

Publication date: 2002-05-24
Application date: 2000-11-14
Earliest priority date: 2000-11-14

Inventors: HASHIMOTO KAZUHIKO, TANAKA SHINJI, INOUE SHIGEYUKI, YOSHIIKE NOBUYUKI

CPC classification:
IPC classification: A61B 5/00, G06Q 10/00, G06Q 50/00, H04W 88/02, H04B 7/24, G08B 25/04, G06Q 50/22, G06Q 50/10, H04W 4/90

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

(57) [Summary] [Problem] Conventionally, when a house of a person to be detected of an action state is away from a hospital, a doctor at a hospital cannot automatically know the action state of the person to be detected. SOLUTION: A personal information terminal 6 for collecting personal characteristic behavior information of a human body, a behavior information collecting means for separately collecting personal characteristic behavior information, and personal characteristic behavior information from the personal information terminal 6 by wireless communication 12. A receiving base station 7, Behavior evaluation means 14 for processing the individual characteristic behavior information to determine the behavior state of the human body, state determination means 15 for determining / predicting the presence or absence of an abnormality in the behavior state of the human body from the behavior state obtained thereby, Communication means 31 for automatically transmitting the result, or the result of the determination and information on the action state via the Internet, and communication means 32 for receiving information from the communication means 31; The means 32 can perform bidirectional communication of information on the Internet.

First claim

A wearable personal information terminal for collecting at least a part of personal characteristic behavior information of a human body, and at least a part of the personal characteristic behavior information of the human body which is fixedly installed at a predetermined place without being carried by the human body. A base station for receiving personal characteristic behavior information from the personal information terminal by wireless communication, personal characteristic behavior information received by the base station, and an individual from the behavior information collecting means. An action state calculating unit that integrates and processes the characteristic action information and obtains the action state of the human body; an action state obtained by the action state calculation unit;

State determination means for comparing with predetermined reference information to determine and predict the presence or absence of an abnormality in the behavioral state of the human body; and a determination result determined by the state determination means, or the determination result and the behavioral state calculation means A first Internet terminal transmitting, via the Internet, the information on the behavior state determined by the above, and the determination result from the first Internet terminal via the Internet, or the determination result and the information on the behavior state And a second Internet terminal for receiving the information, and wherein the first Internet terminal and the second Internet terminal can perform two-way communication of information via the Internet.

39. Audience monitoring system

US4779198A | Control Data Corp

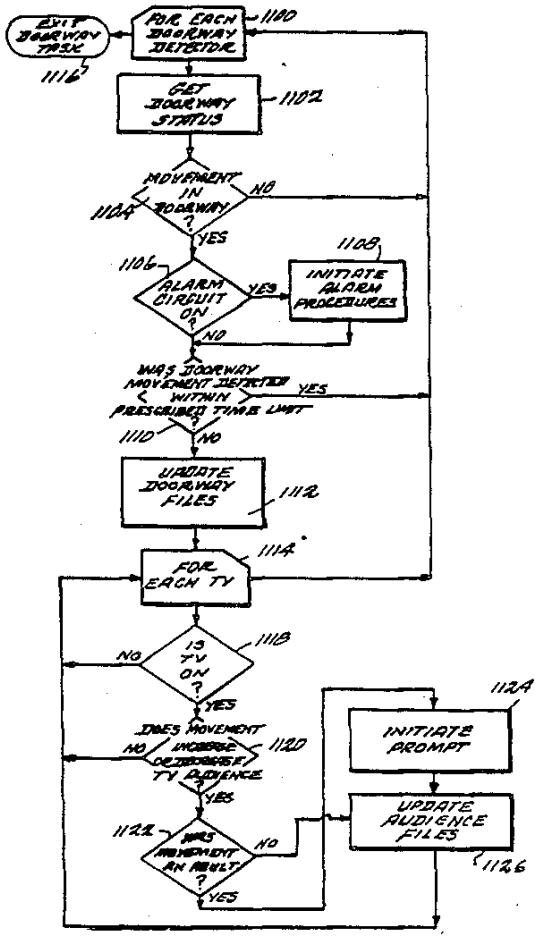
Bibliographic data

Publication date: 1988-10-18
Application date: 1988-01-26
Earliest priority date: 1986-08-26

Inventors: LURIE OSCAR M

CPC classification: H04H 60/33, H04H 60/45
IPC classification: H04H 60/33, H04H 1/00, H04H 60/45

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

Each doorway or passageway between rooms in which a device may be located is fitted with another device which detects motion and the direction of the motion through the passage. Each room is equipped with a signal emitter that is controlled by the motion detector at the room's passage. The signal emitted by the signal emitter is received by a monitor which monitors the status of the device which happens to be located in that room. The emitted signal informs the monitor when there has been motion into the room (audience increase) or when there has been motion out of the room (audience decrease). Motion between rooms will result in a decrease signal being sent by the signal emitter in one room and an increase signal being sent by the signal emitter in the other room. If no device and monitor are located in a room, the increase or decrease signal is ignored by the audience monitoring system. If a monitor is located in the room, however, the increase or decrease signal received by it from the signal emitter will cause the monitor to issue an immediate prompt, to remind the persons in the room to push the keys of an inputting device to report the identity of the individuals who just entered or departed. The monitor will record this information, the time of day, and information received from the inputting device, such as channel selection and the like in the case of a television.

First claim

Apparatus for monitoring the population in a room containing a device, said apparatus comprising:
means for detecting the entry and exit of people from said room; and
means for monitoring the status of said device , said monitoring means including means responsive to said detecting means for prompting people in said room to input additional information to said monitoring means when said detecting means detects entry or exit from said room.

40. LIVING ENVIRONMENT RECORDING SYSTEM

JPH11346270A | Individual

Bibliographic data

Publication date: 1999-12-14
Application date: 1998-06-02
Earliest priority date: 1998-06-02

Inventors: YASUI MIKIO

CPC classification:
IPC classification: G08B 21/04, A61B 5/00, G08B 21/00, H04M 11/00, G06F 17/40, G08B 21/22

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

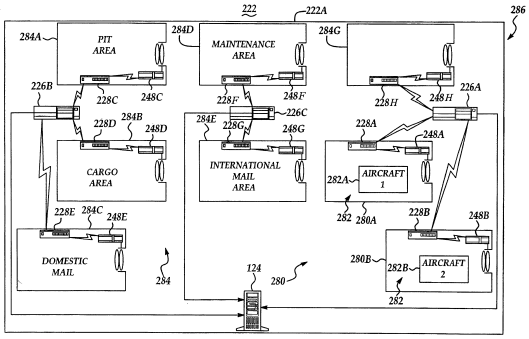
(57) [Summary] [Problem] When inquiring about the safety of elderly or disabled people living alone, there is a time constraint from the living time of the elderly, etc. when asking from a remote location. It was difficult. A living environment recording system is provided at each of a plurality of locations in a house, detects a human body moving in the house, and outputs a signal, and time information of the signal output from the human body detecting means. An in-home control device comprising: an information recording means for recording the information together with the detection location information; a communication means for outputting time information and detection location information corresponding to each human body detection means recorded by the information recording means to a communication line; And an information output device which is selectively connected to the communication means via a communication line and which outputs each information recorded in the information recording means in a timely and visible manner.

First claim

A human body detecting means which is installed at each of a plurality of places in a house and detects a human body moving in the house and outputs a signal, and time information of the signal output from the human body detecting means together with detection location information. A home control device comprising: an information recording means for recording; a communication means for outputting time information and detection location information corresponding to each human body detecting means recorded by the information recording means to a communication line; A living environment recording system, comprising: an information output device selectively connected to a communication unit via a communication unit to output each information recorded in the information recording unit in a timely and visible manner.

41. Event driven information system

US6717517B2 | USM Systems Ltd



Bibliographic data

Publication date: 2004-04-06
Application date: 2002-03-05
Earliest priority date: 2000-04-21

Inventors: PRZYGODA JR CHESTER T

CPC classification: G06K 17/00, G06Q 10/08, G07F 7/0636, G07G 1/0036, G08B 13/1418, G08B 13/1427, G08B 21/0222, G08B 21/0227, G08B 21/0288
IPC classification: G08B 13/14, G06K 17/00, G08B 25/10, H04B 5/02

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A system for tracking and monitoring at least one item in an environment includes at least one transmitter assigned a unique identification number for the item and attached to the item and at least one receiver for receiving a first data packet which includes the unique identification number from the transmitter. At least one node computer controls the receiver, receives a second data packet which includes said unique identification number and direction-of-travel code from the receiver, and determines a location of the item from the direction-of-travel code. A controller computer controls the node computer, receives the unique identification number and the location of the item from the node computer, and stores the unique identification number and the location of the item. A central computer facility coordinates the controller computer and collects and stores the unique identification number and the location of the item for exportation from the system.

First claim

A system for monitoring and tracking a container in an environment, comprising:
a transmitter assigned a unique identification number and being coupled to the container, the transmitter being adapted to transmit the unique identification number;
at least one receiver adapted to receive the unique identification number from the transmitter, to responsively determine a direction of travel of the transmitter, and to responsively generate a direction of travel code;
at least one node computer coupled to the at least one receiver and being adapted to control the receiver, to receive the unique identification number and the direction of travel code from the at least one receiver, and to responsively determine a location of the container as a function of the direction of travel code;
a controller computer coupled to the node computer and being adapted to receive the unique identification number and the location of the container from the node computer and to store the unique identification number and the location of the container; and
a central computer facility coupled to the controller computer and being adapted to collect and store the unique identification number and the location of the container for exportation from the system.

42. Method and system for providing integrated remote monitoring services

US7286158B1 | Axcess International Inc

Bibliographic data

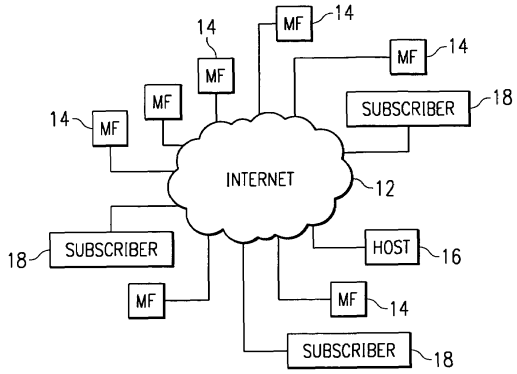
Publication date: 2007-10-23
Application date: 1999-12-22
Earliest priority date: 1999-12-22

Inventors: GRIEBENOW ALLAN R

CPC classification: G07C 9/27, G07C 9/28, G08B 13/19645, G08B 13/19656, G08B 13/19697, G08B 13/2417, G08B 13/2454, G08B 13/248, G08B 13/2482

IPC classification: G06K 9/00, G07C 9/00, G08B 13/24, H04N 7/18, G08B 26/00, G08B 15/00, G08B 13/196

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

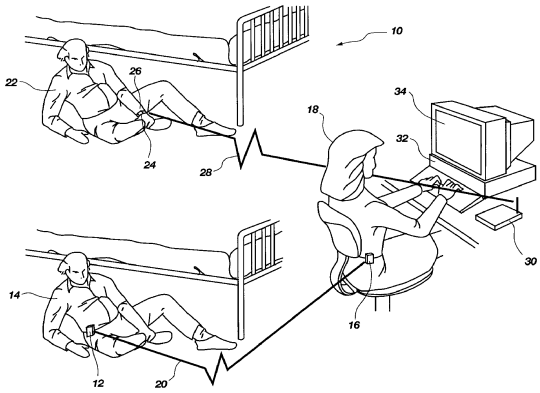
A method and system for providing integrated remote monitoring services includes receiving and storing radio frequency identification (RFID) data from an RFID system at a remote facility of a subscriber. Video data is received from a video system at the facility and also stored. The subscriber is provided with access to the stored RFID and video data. The subscriber is also provided with access to and control of a video camera in the video system at the facility.

First claim

A method for providing integrated remote monitoring services, comprising:
receiving and storing radio frequency identification (RFID) data from an RFID system at a remote facility of a subscriber;
receiving and storing video data from a video system at the facility;
providing the subscriber with access to the stored RFID and video data;
providing the subscriber with access to and control of a video camera in the video system at the facility;
processing the RFID data to generate a report for the subscriber.

43. Wireless health monitoring system

US6160478A | Sarcos LC



Bibliographic data

Publication date:	2000-12-12
Application date:	1998-10-27
Earliest priority date:	1998-10-27
Inventors:	JACOBSEN STEPHEN C, PETELENZ TOMASZ J, PETERSON STEPHEN C
CPC classification:	A61B 5/002, A61B 5/0022, A61B 5/021, A61B 5/024, A61B 5/1117, A61B 5/6826, A61B 5/6831, A61B 5/6838, A61B 5/7465, G08B 21/0446, G08B 21/0453, G08B 25/006, G08B 5/223, G16H 40/67, G16H 50/20, Y10S 128/903
IPC classification:	G08B 21/04, A61B 5/00, A61B 5/024, A61B 5/021, A61B 5/11, G08B 5/22
External links:	Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A system for remotely monitoring a person's physical activity includes at least one accelerometer capable of measuring both the magnitude and direction of an acceleration. The acceleration data is processed to determine motion/position status and to decide whether there is a likelihood that the person has fallen, and if so, the likely direction that the person has fallen. Based on this data, the likely severity of the fall is calculated. If the severity of the fall is outside an acceptable limit, an alert state is reached upon which a signal is communicated to a remote monitoring unit. Likewise, various physiological conditions may be measured to determine the existence of any anomalous vital signs that would trigger an alarm state. If so, the remote monitoring unit will sound or otherwise communicate an alarm to a person associated with the remote monitoring unit.

First claim

A system for monitoring physical activity of a person, comprising:
a multi-dimensional accelerometer disposed on at least one body part of the person for measuring a magnitude and relative direction of movement of the body and generating a signal indicative of the measured acceleration;
processing means associated with the multi-dimensional accelerometer for receiving the signal from the multi-dimensional accelerometer and converting the signal into data, wherein the processing means analyzes data from the multi-dimensional accelerometer until it receives a spike pulse to indicate a possibility that a fall has occurred and then the severity of the fall is determined based on the spike pulse magnitude;
first communication means associated with the processor means for sending the data to a remote location; and
second communication means at a remote location for receiving the data from the first communication means.

44. MONITORING SYSTEM OF REMOTE PLACE

JP2002015386A | MORIMOTO SHOTEN KK

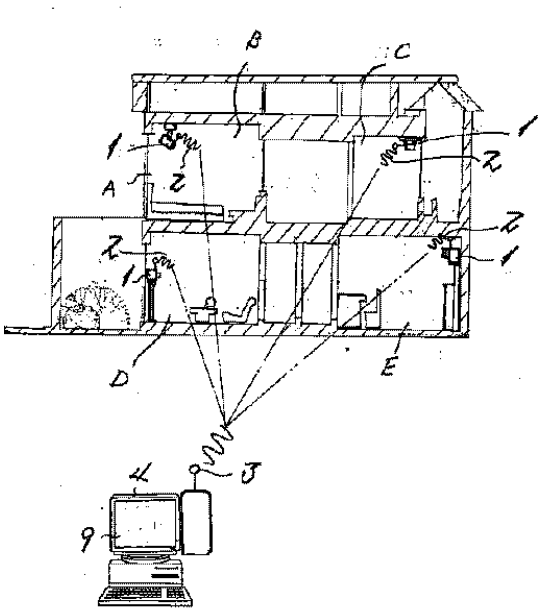
Bibliographic data

Publication date: 2002-01-18
Application date: 2000-06-28
Earliest priority date: 2000-06-28

Inventors: MORIMOTO MASAYOSHI

CPC classification:
IPC classification: H04M 11/00, H04N 7/18, G08B 25/00, G08B 25/08

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

(57) [Summary] [Purpose] Surveillance of remote places such as villas, houses and factories and offices, livestock breeding, and illegal intruders such as orchards from remote places. system. In a remote place to be monitored, one or a plurality of monitor cameras and a video transmission terminal sufficient for photographing a desired range are installed, and a monitor side selectively selects each monitor camera. It has a communication means such as a telephone line for sending a drive signal, and a communication image processing system for receiving and recording content information from a monitor camera. What you can do.

First claim

At least one or a plurality of buildings, such as a villa or a barn, or a site such as an orchard, which are remote from a surveillant, are sufficient for photographing a desired area. A monitor camera, a video transmission terminal, and communication means such as a telephone line provided on the monitor side for selectively transmitting a drive signal to the individual monitor camera, and receiving and recording content information from the monitor camera. A surveillance system that consists of a communication image processing system and allows the information of an intruder in a remote place to be known by a surveillant's operation.

45. Body-worn monitoring system for obtaining and evaluating data from a person

US5917414A | Siemens AG

Bibliographic data

Publication date: 1999-06-29
Application date: 1997-08-14
Earliest priority date: 1996-09-13

Inventors: OPPELT ARNULF, PFEILER MANFRED

CPC classification: A61B 2505/07, A61B 2560/0242, A61B 5/0002, A61B 5/1113, H04B 1/3827
IPC classification: A61B 5/00, A61B 5/11, A61B 5/16, H04B 1/3827

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

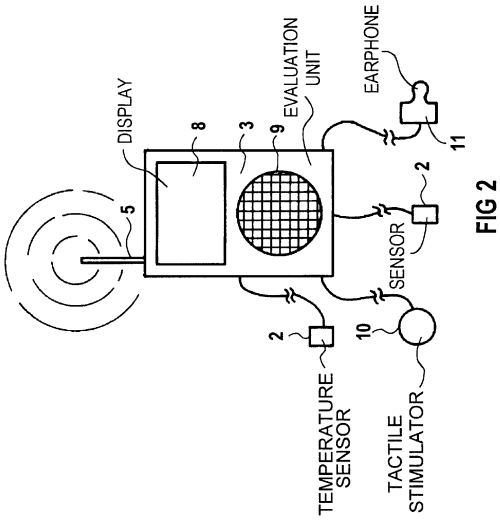


FIG 2

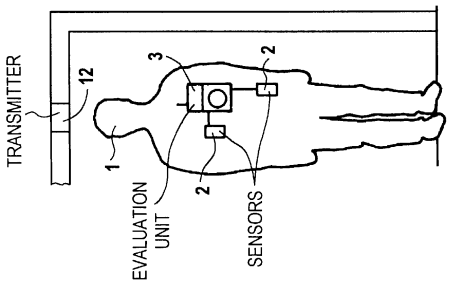


FIG 1

Abstract

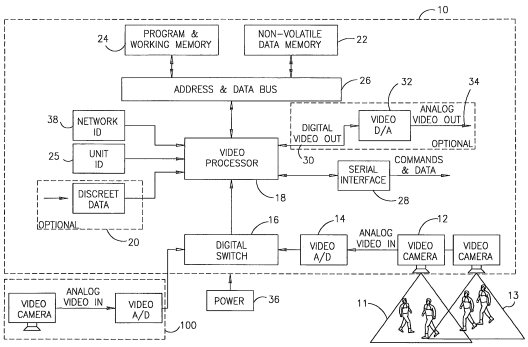
A body-worn monitoring system for obtaining and evaluating data from a person includes at least one sensor carried by the person to be monitored, and an evaluation unit worn by the person to be monitored which is supplied from a signal from the sensor. The evaluation unit either independently, or in communication with a remote computer, evaluates the data and initiates the generation of a message which is communicated to the monitored person by the evaluation unit. If data which is typical of the daily behavior pattern of the person fails to arrive, the person can be reminded of the necessity of undertaking a particular activity.

First claim

A monitoring system for obtaining and evaluating data from a person, comprising:
a motion sensor adapted to be carried body-proximate by a person to be monitored, said person having a daily routine including a motion pattern, said sensor producing a sensor signal dependent on body motion comprising said motion pattern of said daily routine;
an evaluation unit adapted to be worn by said person to be monitored, said evaluation unit containing trainable means, supplied over time with said sensor signal, for learning said daily routine over time from said sensor signal and, after said daily routine has been sufficiently learned, for evaluating said signal to detect a motion of said person deviating from said motion pattern of said daily routine for identifying a non-routine condition of said person to be monitored dependent on said sensor signal; and
said evaluation unit further including means for, upon identification of said non-routine condition, communicating with said person to be monitored to transmit a message perceptible only to said person to be monitored to prompt said person to alter said non-routine condition.

46. Video-based system and method for counting persons traversing areas being monitored

US7612796B2 | CountWise LLC



Bibliographic data

Publication date: 2009-11-03
Application date: 2003-12-29
Earliest priority date: 2000-01-13

Inventors: LEV-RAN ILAN, TOPAZ DOV

CPC classification: G07C 9/00, G08B 13/19606, G08B 13/19619, G08B 13/19632, G08B 13/19656
IPC classification: G06K 9/00, G07C 9/00, H04N 7/18, H04N 9/47, G08B 13/194

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A video based system and method for detecting and counting persons traversing at least two areas being monitored. The method includes the steps of initialization of at least one end unit, having at least a camera, the camera producing images of at least a first area being monitored and a second area being monitored, digitizing the images and storing the digitized images in a non-volatile memory unit and a working memory unit; detecting potential persons in the images; comparing the digitized images of objects detected in the first area and second area being monitored with digitized images stored in the working memory unit to determine whether the detected object is a new figure in such area or whether the detected object is a known figure that has remained within such area and to determine that a figure which was not detected has left such area; incrementing a counter for such area with an indication of the number of persons that have passed through such area, and comparing the number of persons passing through a first area with the number of persons passing through a second area.

First claim

A method of counting persons traversing areas being monitored comprising:
initialization of at least an end unit, said end unit having installed therein, at least a camera producing images of a first area being monitored and a second separate area being monitored, said end unit comprising at least a non-volatile memory unit and a working memory unit, the non-volatile memory unit comprising a plurality of counters;
digitizing said images and storing said digitized images in a nonvolatile memory unit and a working memory unit;
detecting objects being potential persons from said digitized images;
comparing the digitized images of objects detected in said first area being monitored with digitized images of said first area being monitored stored in the working memory unit to determine whether the detected object is a new figure that has entered said first area being monitored or whether the detected object is a known figure, that has remained within said first area being monitored and to determine that a figure which was not detected has left said first area being monitored;
incrementing at least a first of said plurality of counters with an indication of the number of persons that have passed through said first area being monitored,
comparing the digitized images of objects detected in said second area being monitored with digitized images of said second area being monitored stored in the working memory unit to determine whether the detected object is a new figure that has entered said second area being monitored or whether the detected object is a known figure, that has remained within said second area being monitored and to determine that a figure which was not detected has left said second area being monitored;
incrementing at least a second of said plurality of counters with an indication of the number of persons that have passed through said second area being monitored, and
comparing said indication of the number of persons that have passed through said first area being monitored with said indication of the number of persons that have passed through said second area being monitored.

47. System for monitoring patients with Alzheimer's disease or related dementia

US6753782B2 | Vitrak Systems Inc

Bibliographic data

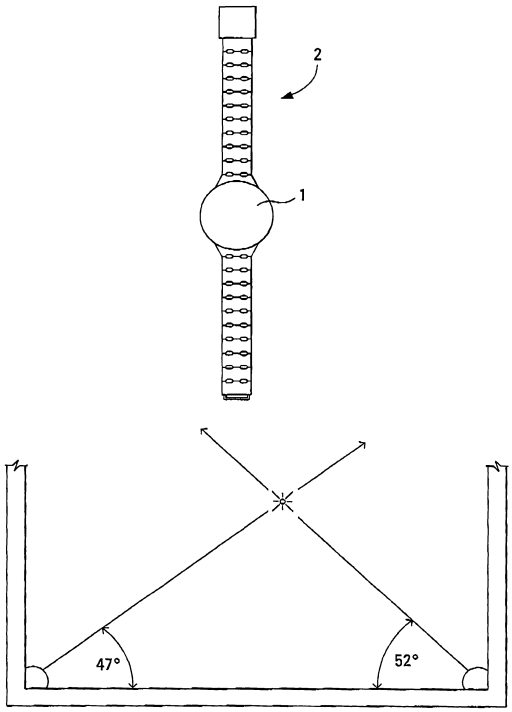
Publication date: 2004-06-22
Application date: 2001-11-01
Earliest priority date: 2000-11-01

Inventors: POWER MICHAEL W

CPC classification: A61B 5/1113, A61B 5/1124, A61B 5/1127, A61B 5/4088, A61B 90/90, G08B 21/0211, G08B 21/0227, G08B 21/0247, G08B 21/0288, G08B 21/0294, G08B 21/043, G08B 21/0446

IPC classification: G08B 21/04, G08B 21/02, H04B 1/59, A61B 90/98

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A system is provided for monitoring the behavior, behavior patterns and movements of patients with Alzheimer's, related dementia and a range of other diseases, disorders and injuries including childhood autism, attention deficit disorder (ADD), schizophrenia, severe clinical depression, brain injury, and conditions such as recovery from hip replacement surgery. The monitoring system comprises: a transmitter worn by the patient which emits an identification signal; a detector placed at a hazard or a at a location to be monitored, the detector capable of determining the distance of the patient from the detector and determining the occurrence of an incident when the distance falls below a predetermined threshold; a receiving unit for receiving the information transmitted by the detector; and database means for accumulating information received by the receiving unit. The purpose of the system is to safeguard patients from injury and to generate, accumulate and analyze data and information about these diseases, conditions and disorders.

First claim

A system for monitoring a person under care, comprising:
a transmitter to be worn by the person and for emitting a signal including an identification corresponding to the person;
a detector being capable of detecting the signal and being capable of measuring different values of a physical parameter of the signal which provides different values of distance from the detector to the person as the distance varies, and being capable of transmitting the identification and transmitting information indicative of said different values of distance;
a controller for receiving from the detector, the identification and the information indicative of said different values of distance; and
database means for storing information received by the controller from said detector.

48. Method and apparatus for remotely monitoring a site

US6917288B2 | NetTalon Security Systems Inc

Bibliographic data

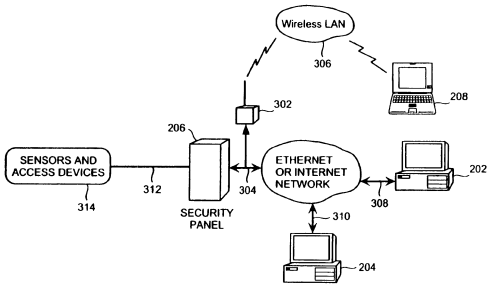
Publication date: 2005-07-12
Application date: 2002-05-08
Earliest priority date: 1999-09-01

Inventors: KIMMEL DAVID E, BYRNE JR JAMES T, JONES JR DONALD R, DUBOIS RONALD

CPC classification: G08B 13/19, G08B 13/19608, G08B 13/19645, G08B 13/19656, G08B 13/19682, G08B 13/19684, G08B 13/19691, G08B 13/19697, G08B 13/22, G08B 25/10, G08B 25/14

IPC classification: H04M 11/00, G08B 29/00, G08B 19/00, G08B 25/08, G08B 25/10, G08B 13/196, G08B 25/14

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

The present invention is directed to providing systems and methods for remotely monitoring sites to provide real time information which can readily permit distinguishing false alarms, and which can identify and track the precise location of an alarm. In embodiments, monitoring capabilities such as intrusion/fire detection and tracking capabilities, can be implemented through the use of multistate indicators in a novel interface which permits information to be transmitted using standard network protocols from a remote site to a monitoring station in real-time. In embodiments, communications can be handed from the centrally located host monitoring station to a mobile monitoring station (for example, a laptop computer in a responding vehicle, such as a police or fire vehicle). Additional embodiments include high, low, and rate-of-change alarms; chromagraphic representation of the value of an environmental or other parameter measured in a space; and detection and location of portable interface devices in a space.

First claim

A system for monitoring a space, comprising:
a security panel located at the space, said security panel in communication with a sensor, wherein the sensor is configured to monitor a parameter;
wherein the security panel is configured to receive information from the sensor regarding a value of the parameter;
wherein the security panel is configured to identify an alarm state from the group consisting of a high alarm state when the value of the parameter exceeds a predetermined high-end threshold, a low alarm state when the value of the parameter is less than a predetermined low-end threshold; and a rate-of-change alarm state when changes in the value of the parameter exceed a predetermined rate-of-change threshold; and
wherein the security panel is configured to automatically transmit to a monitoring station information responsive to the alarm state.

49. BEHAVIOR MONITORING DEVICE AND BEHAVIOR MONITORING AND SUPPORTING SYSTEM

JP2000000216A | Toshiba Engineering Corp

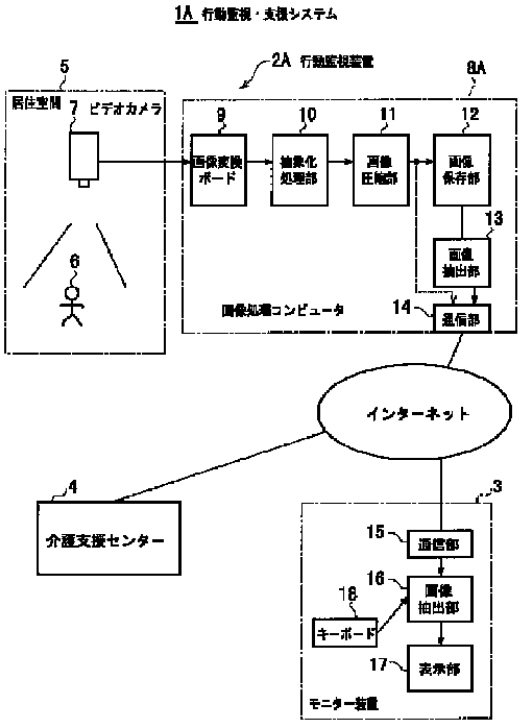
Bibliographic data

Publication date: 2000-01-07
Application date: 1998-06-12
Earliest priority date: 1998-06-12

Inventors: TAKADA KEISUKE

CPC classification:
IPC classification: A61B 5/00, G08B 21/00, G06T 1/00, G08B 21/22, G08B 25/00, G06T 9/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

(57) [Summary] [PROBLEMS] To monitor a person with an image and abstract the person image while protecting privacy, and support the action. A video camera provided in a living space. , The person 7 is imaged. The person portion in the captured image signal is abstracted by the abstraction processing unit 10 by mosaic processing or temporal difference processing, and then compressed and stored. The image signal is transmitted to the monitor device 3 via the Internet and displayed on a screen.

First claim

An image capturing means provided in a space used by a person to be monitored, an image signal captured by the image capturing means, and the person to be monitored is abstracted from the image signal. Abstraction processing means; image storage means for compressing and storing an image signal in which the person portion to be monitored is abstracted by the abstraction processing means; and directing the compressed image signal to the outside. A behavior monitoring device, comprising: a communication unit for transmitting data.

50. Method and device for detecting and analyzing the reception behavior of people

US6967674B1 | Displaycom GmbH

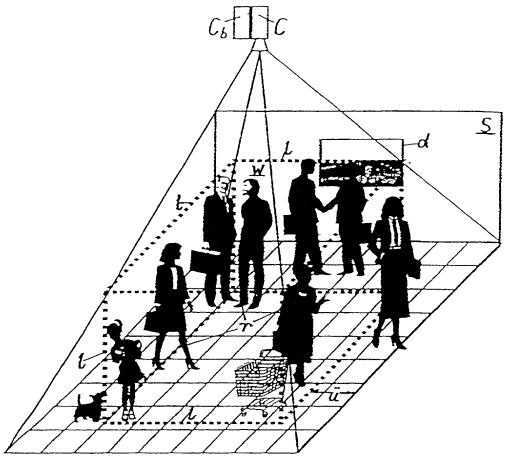
Bibliographic data

Publication date: 2005-11-22
Application date: 2002-02-21
Earliest priority date: 1999-09-06

Inventors: LAUSCH HOLGER

CPC classification: G06Q 30/02, G07C 9/00
IPC classification: G07C 9/00, G06Q 30/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

The invention relates to a method and device for detecting and analyzing the reception behavior of people in at last one reception room according to visual, audiovisual and/or auditory messages, actions and/or to the guiding of flows of customers. The method should be able to be realized with a lower degree of complexity than that of prior art methods. The invention is characterized in that, from the moment each person enters the reception room until their departure, their location coordinates, body coordinates, turning movements and rotating movements of their body and/or of parts of their body, as well as the posture of their body and/or the position of their extremities are detected with a frequency that is greater than one.

First claim

A method for detecting and analyzing behavior of at least one person in at least one room in dependence on at least one visual, audiovisual and/or auditory message intended to influence actions and/or path of movement of said at least one person, comprising:

detecting time-dependently by at least one predetermined frequency the position coordinates of said at least one person, the body coordinates of said at least one person, turns and rotations of said at least one person's body and/or parts thereof as well as said at least one person's posture and/or attitude of said at least one person's extremities from said at least one persons's entry into the room up to said at least one person's exit from the room;

analyzing one or more of said position coordinates body coordinates, turns and rotations of said at least one person's body and/or parts thereof and posture and/or attitude of said at least one person's extremities to determine the influence of said at least one visual, audiovisual and/or auditory message on said at least one person.

51. SUPERVISORY AID SYSTEM FOR INSIDE AND OUTSIDE OF BUILDING AND SUPERVISORY AID METHOD FOR INSIDE AND OUTSIDE OF BUILDING UTILIZING MOBILE COMMUNICATION TERMINAL

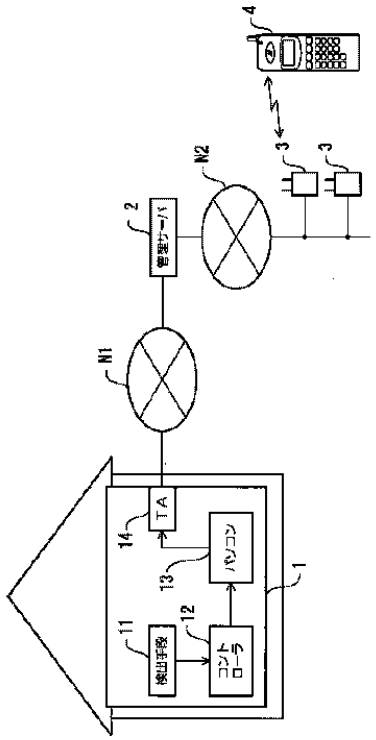
JP2002158800A | AD CREATION KK, Sekisui House Ltd

Bibliographic data
Publication date: 2002-05-31
Application date: 2000-11-21
Earliest priority date: 2000-09-08

Inventors: NAKADA YUJI, SASAKI HIROSHI

CPC classification:
IPC classification: H04M 11/04, G08B 25/00, G08B 25/10

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract
(57) [Problem] To provide a system and a method for improving the efficiency and speed of building management by applying wireless communication technology to building management. SOLUTION: Detection means 11 for detecting information inside and outside a building And transmission means for transmitting detection information from the detection means 11 as text and image information to the mobile phone 4 as a mobile communication terminal. The transmission means is connected to a wired or wireless communication line. It comprises a controller 12 and a personal computer 13. The detecting means 11, the controller 12, and the personal computer 13 detect information inside and outside the building, transmit the detected information as character and / or image information to the mobile communication terminal, and receive the information. And supervising the inside and outside of the building in the mobile communication terminal.

First claim
A detecting means for detecting information inside and outside a building;
Transmission means for transmitting information detected by the detection means as text and / or image information to the mobile communication terminal, wherein the mobile communication terminal having received the information can supervise inside and outside the building. An inside and outside supervision supervision support system using body communication terminals.

52. System for detecting persons in access regions - has motion sensitive detector arrangement with passive IR detector, evaluation circuit driving counter with directional balancing, thermal detector and logic circuit correcting direction-dependent person count

DE4220508A1 | Iris GmbH IG Infrared and Intelligent Sensors

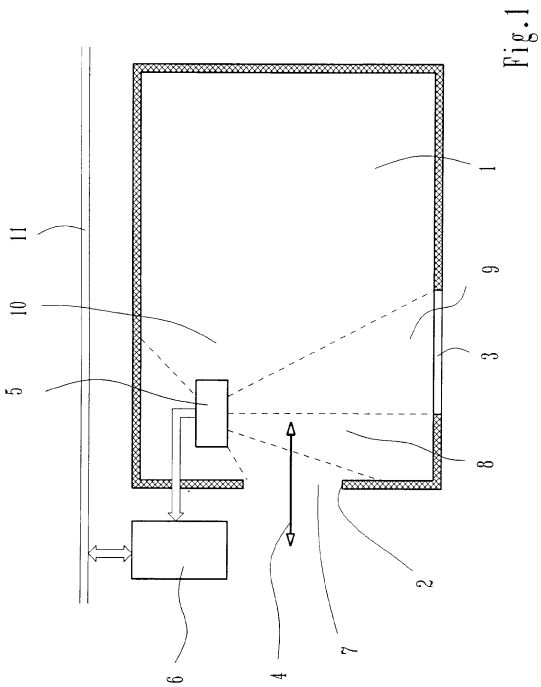
Bibliographic data

Publication date: 1993-12-23
Application date: 1992-06-22
Earliest priority date: 1992-06-22

Inventors: HAUFE ANDRE DIPL PHYS DR

CPC classification: G01P 13/00, G07C 9/00, G08B 13/19
IPC classification: G07C 9/00, G01P 13/00, G08B 13/19

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

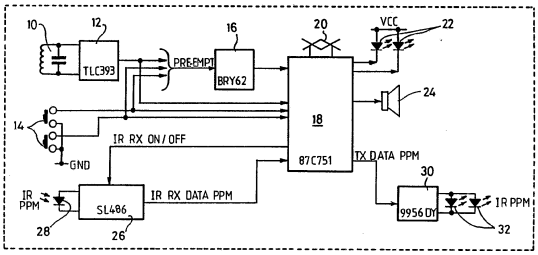
The system contains a motion sensitive detector (5) with an optical system, a passive IR detector with several detection ranges and an evaluation circuit. The circuit controls a counter according to the signals received. The counter records the number of persons passing the detector, balancing the number according to the direction of motion of the detected persons. A motion detector produces a further signal when thermal radiation detected in the monitored region changes. A logic circuit receiving the counter and thermal motion detector signals corrects the counter. The counter is zeroed when the balancing process produces a negative count. USE/ADVANTAGE - For monitoring access regions of monitored objects. System automatically corrects for false counting when persons are detected.

First claim

System for detecting people, comprising a movement-direction-sensitive detector device, with an optics, a passive, multiple detection areas having infrared detector, and a downstream evaluation circuit, which controls a counting circuit in response to the signals emitted by the elements records the number of people who have passed the detector, with the detection in an access area for an object to be monitored being movement-dependent, and the counting circuit balancing the number of people detected taking into account their direction of movement, characterized in that a motion detector is provided, which emits a further output signal when a change in the recorded heat radiation occurs in its detection area extending within the object to be monitored, and that a logic logic circuit is provided which provides an output signal nal of the counter circuit and the output signal of the motion detector are supplied as input signals, which delivers a correction signal influencing the counter reading of the counter circuit.

53. TRACKING AND/OR IDENTIFICATION SYSTEM

WO1993018476A1 | OLIVETTI RES LTD, DIGITAL EQUIPMENT CORP



Bibliographic data

Publication date: 1993-09-16
Application date: 1993-03-08
Earliest priority date: 1992-03-11

Inventors: HOPPER ANDREW, HARTER ANDREW, BLACKIE THOMAS DALGLEISH, WANT ROY

CPC classification: A01K 11/006, A01K 15/023, G06K 7/1097, G07C 9/28, G08B 25/009

IPC classification: A01K 15/02, G07C 9/00, G06K 7/10, G06K 7/00, H04B 7/26, A01K 11/00, G08B 25/00, H04Q 7/34

External links: Google Patents, Espacenet, EP Register, Patentscope, PatBase Express, PatBase, Orbit

Abstract

A tracking and identification system comprises a plurality of active badges carried by carriers, which may be humans and/or animals and/or objects within a predetermined area, together with a plurality of transceiver sensor stations within the area and in communication with a master control centre. Each badge has an IR transmitter (30) for transmitting a unique IR identification signal, and an astable oscillator (16) which, via a microprocessor (18), causes the IR identification signal to be spontaneously transmitted on a periodic basis, for example every 10 seconds. Additionally, by means of push buttons (14), the IR identification signal can be transmitted by a user prompt, and, by means of an RF field detector (12), the IR identification signal can be transmitted due to entry of the badge into the RF field of an RF field generator.

First claim

A tracking and identification system which comprises a plurality of active badges carried by a plurality of carriers within a predetermined area, each badge having an IR transmitter circuit for transmitting a unique IR identification signal, and a plurality of transceiver sensor stations in the predetermined area able to communicate both with the active badges and with a master control centre, wherein each active badge is arranged spontaneously to transmit its identification signal periodically, and is also able to transmit its identification signal on the occurrence of an external prompt.

54. METHODS FOR REMOTE MONITORING AND CONTROL OF SECURITY DEVICES OVER A COMPUTER NETWORK

US20120159597A1 | ATC - ADVANCED TECHNOLOGY COMPANY LLC

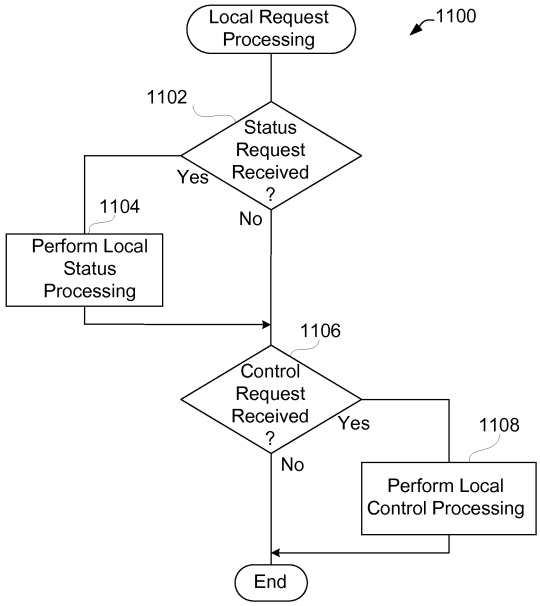
Bibliographic data

Publication date: 2012-06-21
Application date: 2011-12-06
Earliest priority date: 1997-07-01

Inventors: THOMAS C DOUGLASS, PENILLA ALBERT S, NGUYEN JOSEPH A

CPC classification: G06F 17/00, G06F 21/00
IPC classification: G06F 17/00, G06F 21/00, G06F 21/20

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

Methods are provided to access devices over the Internet and to control and/or set states of devices over the Internet. One method includes providing, at a server connected to the Internet, code for enabling access to networked devices at a remote location using a networked computing device. The method can enable receiving a status request to view status of one or more of the networked devices. The method can also enable receiving a control request at the server, via the networked computing device, to operate one or more utility controls at a remote location. The utility controls can be used for any of a variety of purposes. The method is operable for any computing device that has access to the Internet, including wireless hand-held networked devices.

First claim

A non-transitory computer readable medium including at least computer program code stored thereon facilitates control of a security system at a local location from a remote location using a central server, said computer readable medium comprising:
computer program code for identifying a user account;
computer program code for identifying a security system associated with the user account;
computer program code for presenting, within at least one graphical control screen on a remote computing device, current status information regarding the security system, and (ii) user interface controls for permitting a remote user at the remote location to set one or more security settings;
computer program code for receiving at least a remote security setting request from the remote user via the graphical control screen; and
computer program code for causing configuration of the security system at the local location based on the remote security setting request;
wherein the remote computing device and the security system are capable of being electrically connected to a network of computers, and
wherein the central server connects to the network of computers, receives the remote security setting request from the remote computing device, and electronically transmits at least one control message to the security system to thereby configure the security system.

55. Method of user monitoring of physiological and non-physiological measurements

US6002994A | LANE; STEPHEN S., CHADBOURNE; CHRISTOPHER, BULLER; WILLIAM T., STEIGER; SARAH A.

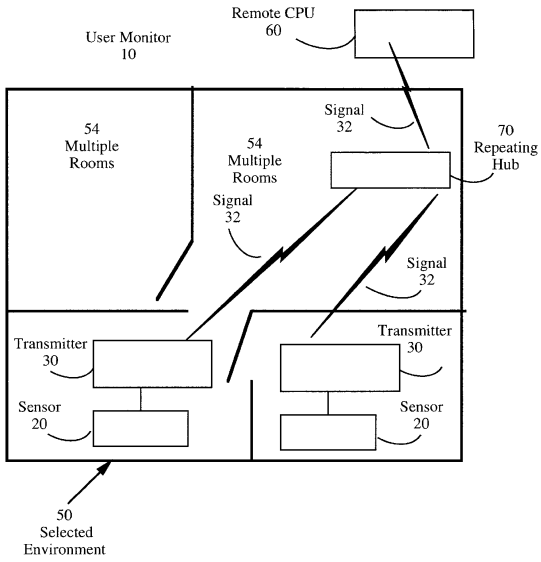
Bibliographic data

Publication date: 1999-12-14
Application date: 1994-09-09
Earliest priority date: 1994-09-09

Inventors: LANE STEPHEN S, CHADBOURNE CHRISTOPHER, BULLER WILLIAM T, STEIGER SARAH A

CPC classification: G01W 1/17, G08B 21/0423, G08B 21/0453, G08B 21/0469, G08B 21/0484, G16H 40/67
IPC classification: G08B 21/04, G01W 1/17

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

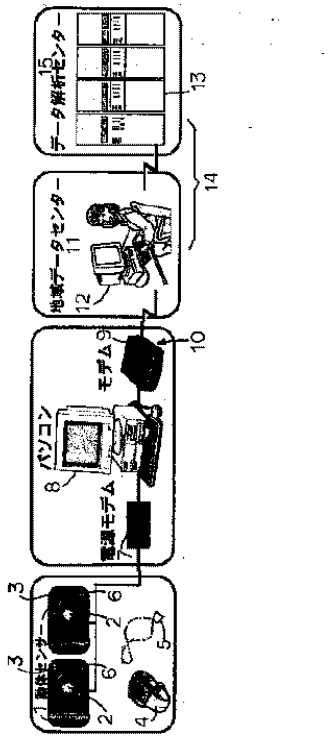
A method for monitoring the activities of a user within a selected environment, which comprises monitoring and reporting the condition of a user in a selected environment, monitoring the time, frequency and duration of use of each of a plurality of selected elements, selected from a plurality of physiological measurements of the user and a plurality of non-physiological measurements from the selected environment, a repeating hub for receiving data from each of the selected elements, transmitting the data from the repeating hub to a central processing unit, analyzing the data received by the central processing unit to establish a pattern of user behavior and normal-use parameters for each of the plurality of selected elements, and signaling beyond the selected environment when at least one selected element exceeds the normal use parameters being monitored.

First claim

A method for user monitoring, for monitoring and reporting the condition of a user in a selected environment, which comprises:
a) a sensing means for monitoring the time and duration of use of each of a plurality of selected elements, selected from at least one of physiological measurements of the user and at least one of non-physiological measurements from the selected environment;
b) a reporting means for transmitting the data from each of the monitoring means to a central processing unit;
c) an analyzing means for analyzing the data received by the central processing unit to establish a pattern of user behavior and normal-use parameters for each of the plurality of selected elements being monitored, and for determining potentially dangerous behavior when the normal-use parameters of at least one selected element deviates from the normal-use parameters previously established for that selected element;
d) a signaling means selected from at least one of the following: a printing means, a synthesized voice signaling means, a telephone message signal means and a video monitoring means, a visual warning means and an audible warning means, whereby ,
the signaling means is used for signaling beyond the selected environment when at least one selected element deviates from the normal-use parameters being monitored.

56. LIFE MANAGEMENT SUPPORT SYSTEM FOR AGED PERSON AND HANDICAPPED PERSON

JP2001195678A | KARUDEIA KK, KURESU KK



Bibliographic data

Publication date: 2001-07-19
Application date: 2000-01-07
Earliest priority date: 2000-01-07

Inventors: YOSHIMOTO MASAHIRO

CPC classification:
IPC classification: H04M 11/04, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

PROBLEM TO BE SOLVED: To provide a life management support system for aged person and handicapped person by which each life pattern of the aged or handicapped person, etc., is monitored precisely concerning a danger state or situation, etc., without infringing his or her privacy and also an unexpected situation, etc., is prevented from occurring. SOLUTION: This system is provided with a dynamic data detecting means which is arranged in the residential area of the aged or handicapped person and detects his or her life action as dynamic data, a signal processing means for processing a data signal from the detecting means, a data transmitting means for transmitting data processed by the processing means to a local data center, etc., and a data analyzing means which is arranged in the local data center, etc., and analyzes data transmitted from the transmitting means.

First claim

Claims: 1. Installed in a residential area for the elderly, disabled, etc.
Moving body data detecting means for detecting at least living activities of the elderly or disabled as moving body data, signal processing means for processing a data signal from the moving body data detecting means, and data processed by the signal processing means in a local area. Characterized by having data transmission means for transmitting data to a data center, and data analysis means for analyzing data transmitted by the data transmission means, which is installed in a regional data center or the like, characterized by having a life of an elderly person or a disabled person. Management support system.

57. Methods for remote monitoring and control of appliances over a computer network

US8073921B2 | Advanced Technology Co LLC

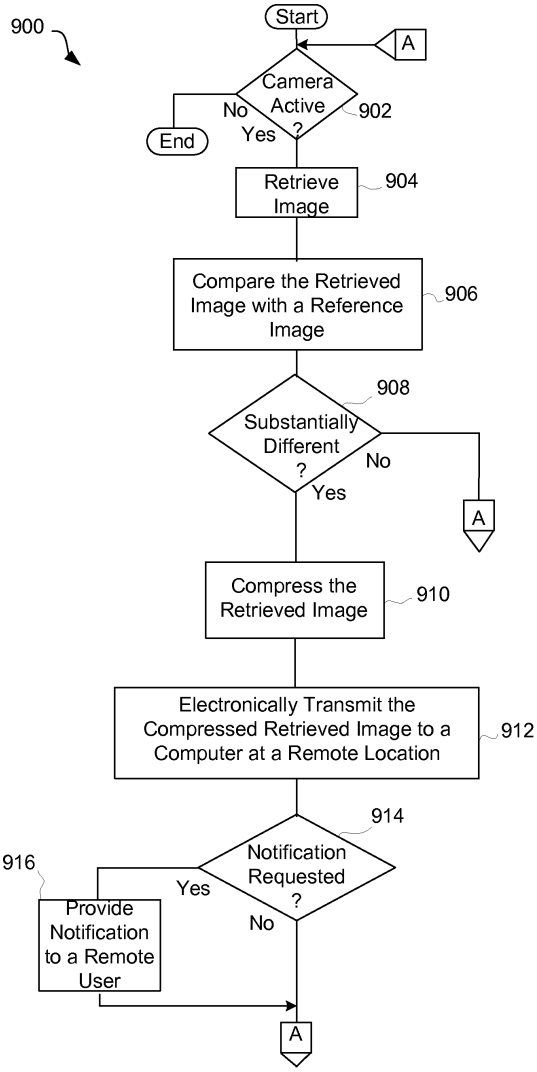
Bibliographic data

Publication date: 2011-12-06
Application date: 2005-04-25
Earliest priority date: 1997-07-01

Inventors: THOMAS C DOUGLASS, PENILLA ALBERT S, NGUYEN JOSEPH A

CPC classification: G05B 15/02, G05B 2219/2642, G08B 25/08, H04L 12/2818, H04L 51/02, H04L 67/125
IPC classification: G06F 17/00, G06F 15/16

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

The remote monitoring and controlling of controllable devices is provided by sending control information to and receiving status information from information appliances over a network. A user is able to monitor the information appliances from a remote location, and control the information appliances from the remote location. The remote monitoring and control can be facilitated by graphical user interfaces. The information appliance can be a home lighting system, a home alarm system, a home entertainment system, a water gardening system, a home heating system, a home cooling system, and a television system having recording capabilities.

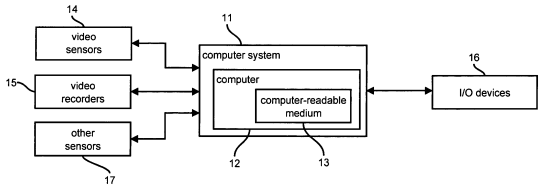
First claim

A method for controlling an information appliance at a local location from a remote location, said method comprising:
identifying an information appliance capable of being controlled at the local location, the information appliance being electrically connected to a local computing device, and the local computing device capable of being electrically connected to a network of computers;
obtaining, at a remote computing device at the remote location, status information for the information appliance at the local location;
displaying a graphical user interface on the remote computing device at the remote location, the graphical user interface including at least (i) a portion of the status information pertaining to the information appliance and (ii) a plurality of selectable control actions for the information appliance, and the remote computing device capable of being

electrically connected to the network of computers;
receiving a selection of at least one of the control actions for the information appliance, the at least one of the control actions to be performed at the local location;
forming a control message for the information appliance;
electrically sending the control message from the remote computing device to the local computing device;
sending control signals from the local computing device to the information appliance in accordance with the control message;
controlling the information appliance based on the control signals;
wherein the information appliance receives television broadcasts over a plurality of channels, the information appliance being associated with a digital data storage device in the local location that is able to store a limited amount of digital data associated with the television broadcasts, and
wherein the graphical user interface includes a selection screen for controlling selection of the channels to record the associated television broadcasts in the digital data storage device.

58. Video surveillance system employing video primitives

US7868912B2 | Objectvideo Inc



Bibliographic data

Publication date: 2011-01-11
Application date: 2005-04-05
Earliest priority date: 2000-10-24

Inventors: VENETIANER PETER L, LIPTON ALAN J, CHOSAK ANDREW J, FRAZIER MATTHEW F, HAERING NIELS, MYERS GARY W, YIN WEIHONG, ZHANG ZHONG

CPC classification: G06F 16/7343, G06F 16/739, G06F 16/786, G06T 7/20, G08B 13/19606, G08B 13/19608, G08B 13/19615, G08B 13/19652, G08B 13/19667, G08B 13/19669, G08B 13/19673, G08B 13/1968, G08B 13/19684, G08B 13/19695, H04N 21/23412, H04N 21/44012, H04N 5/272, H04N 7/18, H04N 7/24

IPC classification: G06K 9/00, G06F 17/30, H04N 7/18, H04N 7/24, H04N 5/272, G08B 13/196

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A video surveillance system extracts video primitives and extracts event occurrences from the video primitives using event discriminators. The system can undertake a response, such as an alarm, based on extracted event occurrences.

First claim

A video system comprising:
a first processor which analyzes a video to determine attributes of objects detected in the video, the first processor being in communication with a first communications link to transfer the determined attributes over the communications link; and
a second processor, separate from the first processor, in communication with the first communications link to receive the determined attributes transferred from the first processor over the first communications link, which determines a first event that is not one of the determined attributes by analyzing a combination of the received determined attributes and which provides, in response to a determination of the first event, at least one of an alert to a user, information for a report, and an instruction for taking an action,
wherein the first processor determines attributes independent of a selection of the first event by the second processor, and
wherein the second processor determines the first event without reprocessing the video analyzed by the first processor.

59. System and method for providing configurable security monitoring utilizing an integrated information system

US8392552B2 | VIG Acquisitions Ltd LLC

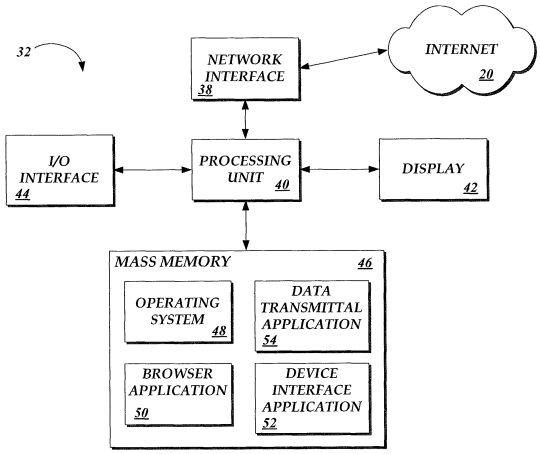
Bibliographic data

Publication date: 2013-03-05
Application date: 2002-04-03
Earliest priority date: 2000-09-28

Inventors: ALEXANDER BRUCE, TALLEY PAUL, HICKS JEFFREY

CPC classification: H04L 41/0893, H04L 41/18, H04L 41/22, H04L 63/10, H04L 63/1416, H04L 67/00, H04L 69/329
IPC classification: G06F 15/16, H04L 12/24, H04L 29/08, H04L 29/06

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

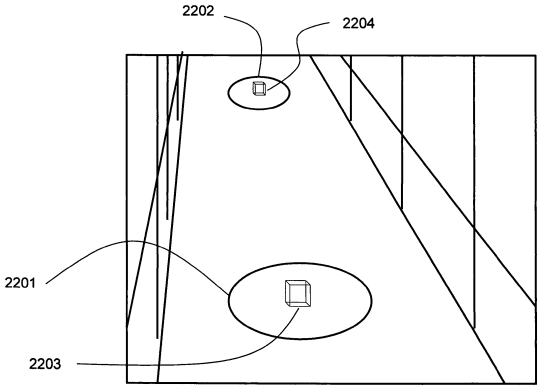
A system and method for implementing an integrated information system are provided. A premises server is in communication with a variety of information sources that produce monitoring data for a premises. The premises server collects, presents, and transmits the monitoring device data to a central server capable of processing data from multiple premises servers. The central server receives the data and traverses one or more logical rule sets to determine whether the inputted data violates the rules. Based on an evaluation of the rules, the central server generates outputs in the form of communication to one or more authorized users via a variety of communication mediums and devices and/or the instigation of a variety of acts corresponding to the evaluation of the rules.

First claim

A method, comprising:
categorizing monitoring device data based on a source of the monitoring device data, wherein categorizing the monitoring device data includes determining whether the monitoring device data was generated at least in part, by an identifiable object, the identifiable object having a determined capability of independent activity in generating the monitoring device data;
obtaining a set of rules from a database, wherein the set of rules includes at least one of: an asset rule for monitoring device data characterized as asset data, a resource rule for monitoring device data characterized as resource data, and a device rule for monitoring device data characterized as event data;
determining from the set of rules whether one or more rules that are based on the categorization of the monitoring device data are found, wherein at least one rule of the set of rules applies to monitoring device data characterized as corresponding to an independent object and wherein at least another rule of the set of rules applies to monitoring device data characterized as not corresponding to an independent object;
processing the monitoring device data according to the one or more rules that are found by causing instructions to be executed by a computing device in response to any of the one or more rules that are based on the categorization of the monitoring device data;
determining whether the monitoring device data is outside a range of the one or more rules that are found, where the range defines a rule violation.

60. Video surveillance system employing video primitives

US10026285B2 | Avigilon Fortress Corp



Bibliographic data

Publication date:	2018-07-17
Application date:	2016-02-16
Earliest priority date:	2000-10-24
Inventors:	VENETIANER PETER L, LIPTON ALAN J, HU YONGTONG, MARTONE ANDREW J, YIN WEIHONG, YU LI, ZHANG ZHONG
CPC classification:	G06F 16/7837, G06F 16/7854, G06F 16/786, G06K 9/00778, G08B 13/19604, G08B 13/19615, G08B 13/19697, G08B 21/0476, G08B 29/188, G08B 31/00, H04N 7/18
IPC classification:	G06K 9/00, G08B 21/04, G06F 17/30, H04N 7/18, G08B 29/18, G08B 31/00, G08B 13/196
External links:	Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A video surveillance system is set up, calibrated, tasked, and operated. The system extracts video primitives and extracts event occurrences from the video primitives using event discriminators. The system can undertake a response, such as an alarm, based on extracted event occurrences.

First claim

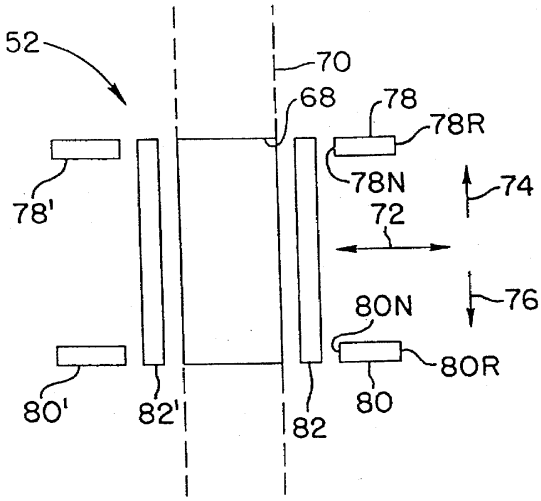
A method of video surveillance, comprising:
receiving, by a computer system, a video comprising video images from a video sensor,
the computer system performing the steps of:
analyzing the video to detect stationary objects in the video using background subtraction of a background model;
analyzing the video to detect people in the video by using frame differencing to detect foreground objects;
upon detecting a first stationary object in the video, defining a zone as a portion of the video around the first stationary object, defining the zone being responsive to a location of the first stationary object, the zone being defined to be larger than an outer boundary of the first stationary object and smaller than a field of view of the video, a size of the zone allowing detection of multiple non-overlapping objects;
tracking a duration that the first stationary object remains stationary;
determining an occurrence of an external event;
issuing an alert in response to determining that the duration of time the first stationary object has remained stationary exceeds a threshold while no person of interest detected in the video has been inside the zone and the occurrence of the external event;
determining a crowd density in the video,
wherein the size of the zone is determined dynamically and is responsive to the determined crowd density.

61. Zone-Based asset tracking and control system

US5708423A | Sensormatic Electronics Corp

Bibliographic data

Publication date:	1998-01-13
Application date:	1995-05-09
Earliest priority date:	1995-05-09
Inventors:	GHAFFARI TOURAJ, GRIMES MARK, ROMER KEVIN D
CPC classification:	G06K 17/0022, G08B 13/14, G08B 13/2408, G08B 13/2434, G08B 13/2462, G08B 13/2471, G08B 13/2474, G08B 13/248, G08B 13/2482, G08B 13/2488
IPC classification:	G07C 9/00, G08B 13/24, G06K 17/00
External links:	Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A data processing system automatically maintains records of respective locations of a plurality of objects in real time. Each of the objects has secured thereto a respective object marker which transmits an identification signal that is unique to the respective object. Sensor devices are installed at respective doorways of a building. Each sensor device receives the identification signal transmitted from the object marker as the respective object is moved through the doorway. The sensor device detects from the identification signal a direction in which the object is being moved through the doorway and generates a detection signal indicative of the detected direction of movement and also indicative of the identification signal for the object. The data processing system receives the detection signals from the sensor devices and maintains a data record with respect to each of the objects indicating the present location in the building of each of the objects.

First claim

A system for automatically maintaining records of respective locations of a plurality of objects in real time, the system comprising:

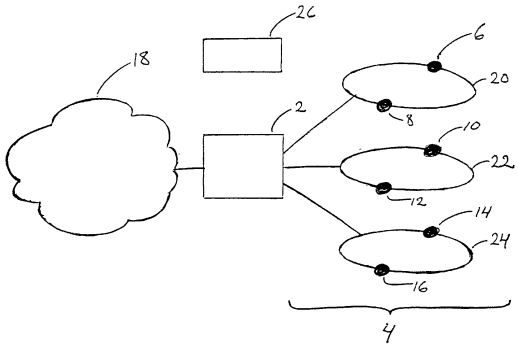
a plurality of object markers each physically associated with a respective one of said plurality of objects for movement with the respective object, each marker transmitting an identification signal that is unique to the respective object;

a plurality of sensor devices each installed at a respective doorway of a building, each said device for receiving said identification signal transmitted from said object marker as the respective object is moved through the respective doorway and for detecting a direction in which the respective object is moved through the doorway, each said device generating a detection signal indicative of said detected direction of movement and said identification signal of the respective object in response to said device receiving said identification signal; and

data processing means for receiving the detection signals from the sensor devices and for maintaining a data record with respect to each of said objects, each said data record including data indicative of a present location in said building of the respective object.

62. EXECUTING ACTIONS IN AN INFORMATION SYSTEM TO PROVIDE AID

WO2002023836A1 | ERICSSON TELEFON AB L M



Bibliographic data

Publication date: 2002-03-21
Application date: 2001-09-07
Earliest priority date: 2000-09-14

Inventors: NYMAN HANS, HAELLSTROEM MIKAEL

CPC classification: G08B 25/14, H04L 12/2807, H04L 12/2827, H04L 2012/285
IPC classification: H04L 12/28, G08B 25/14

External links: Google Patents, Espacenet, EP Register, Patentscope, PatBase Express, PatBase, Orbit

Abstract

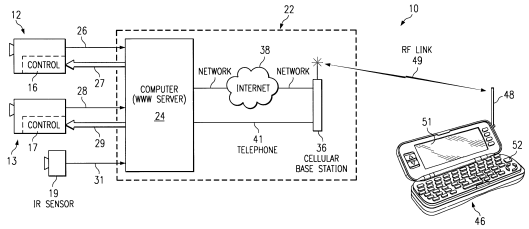
The invention relates to an arrangement for and a method of executing actions in an information system in a building to provide a means of aid to persons. This is achieved by the use of a method of executing at least one predefined action in an information system in a building in response to the occurrence of at least one predefined sequence of activation of at least two of said devices. The execution of an action may in addition be based on timing information. The means for executing a predefined action is a service gateway (2). The arrangement also comprises a local net (4) attached to the service gateway (2) and one or more devices (6, 8, 10, 12, 14, 16) attached to the local net (4). The means for defining sequences of activated devices (6, 8, 10, 12, 14, 16) and actions is a portal (26). The portal (26) is also used to set parameters, functions and limits for the devices (6, 8, 10, 12, 14, 16).

First claim

A method of executing actions in an information system in a building, said system including a number of devices that are able to be activated by actions of a person or persons in said building, to provide a means of aid to said person or persons, characterized in, that the method comprises the step of executing at least one predefined action in response to the occurrence of at least one predefined sequence of activation of at least two of said devices.

63. Monitoring system having wireless remote viewing and control

US6385772B1 | Texas Instruments Inc



Bibliographic data

Publication date:	2002-05-07
Application date:	1999-04-15
Earliest priority date:	1998-04-30
Inventors:	COURTNEY JONATHAN D
CPC classification:	G08B 13/19602, G08B 13/19641, G08B 13/1966, G08B 13/19667, G08B 13/19684, G08B 13/19695, G08B 25/10, H04N 21/21805, H04N 7/181
IPC classification:	H04N 7/18, G08B 25/10, G08B 15/00, G08B 13/194, G08B 13/196
External links:	Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A monitoring apparatus (10) includes a video camera (12) with a section (16) that permits remote control of the camera. A computer 24 subjects video images from the camera to video processing (61-63), which includes temporal sampling, spatial sampling, and dithering. The processed image (71) is integrated into a document in hypertext mark-up language format. A portable unit (46) is operatively coupled to the computer through a wireless link (49), a cellular base station (36), and a network (38) or telephone line (41). An infrared sensor (19) can detect an event of interest in the monitored area, causing the computer to place a telephone call to the portable unit. The person possessing the portable unit can then use the portable unit to access the document which contains the processed image through the network, in order to observe or verify the event. The person can also use the portable unit to remotely control the operation of the video camera.

First claim

An apparatus, comprising:
a detector operative to periodically detect an image of a monitored area;
a system operative to receive the detected image from said detector;
a portable unit having a display; and
a wireless communication link which includes portions of said system and said portable unit and which is operative to facilitate wireless communication between said system and said portable unit, including transmission of the detected image from said system to said portable unit;
said portable unit being operative to present the detected image on said display; and
said system being further operative to detect an occurrence of an event of interest in the monitored area, and to automatically transmit through said wireless communication link to said portable unit an indication of the occurrence of the event of interest.

64. Advanced video security system

US6069655A | Wells Fargo Alarm Services Inc

Bibliographic data

Publication date: 2000-05-30
Application date: 1997-08-01
Earliest priority date: 1997-08-01

Inventors: SEELEY JOHN E, VOGT WILLIAM R

CPC classification: H04N 7/181
IPC classification: H04N 7/18

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

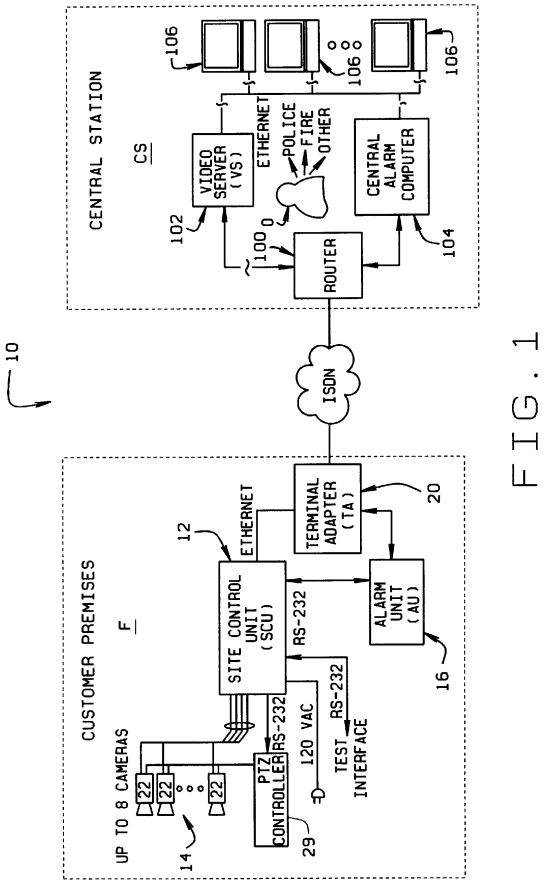


FIG. 1

Abstract

A video security system (10) monitors a premise (F) to detect unwanted intrusions onto the premises. A plurality of cameras (22) located about the premise supply video images of scenes to a processor (12) located which processes the images to detection motion in a scene and classify the source of the motion. Only if the source is determined be one of a predetermined class of causes, is an indication provided to an alarm unit (16). The alarm unit, which is also connected to a plurality of conventional sensors (S1-S3) is responsive to the indication to cause the processor to transmit authenticated video images of the scene in which the motion is detected to a central station (CS). There, a video server (102), in conjunction with an alarm computer (104), enables the images to be displayed at a selected workstation (106) for viewing by an operator (O). Besides video, audio and relevant site data is also made available to the operator at the workstation. The operator's responsibility is to alert appropriate authorities. By not providing an indication of an intrusion unless the intrusion has been previously confirmed on-site, false and unwanted alarms are prevented without reducing but the probability of detecting an intrusion.

First claim

A security system monitoring a premise to detect intrusions onto the premise comprising:
means acquiring sequential multiple video images of a scene of the premise,
a processor processing said images to compare said video images to determine differences in said video images of said scene, to classify the cause of said differences based on physical characteristics of an object causing the differences, and to provide an indication only if said source is classified as movement of a predetermined class; and,
an alarm unit responsive to said indication to provide an alarm.

65. Action control process of security alarm system

US6211783B1 | WANG RANDALL

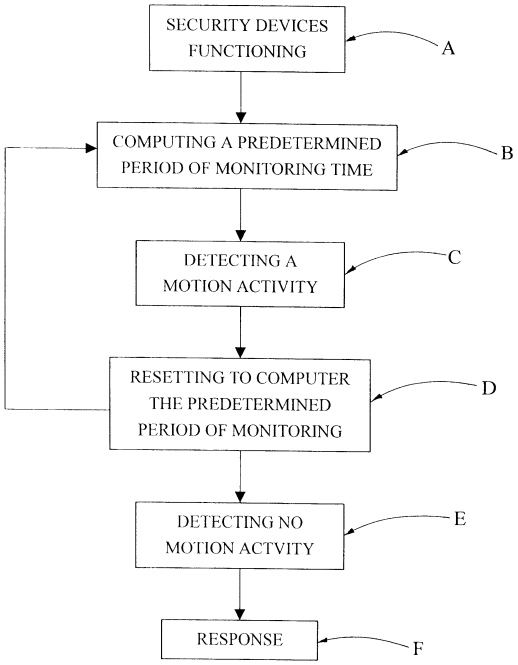
Bibliographic data

Publication date: 2001-04-03
Application date: 2000-05-04
Earliest priority date: 2000-05-04

Inventors: WANG RANDALL

CPC classification: G08B 21/0415, G08B 21/0469
IPC classification: G08B 21/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

An action control process of a security alarm system is to render the general security alarm system to contain an auxiliary function of monitoring or detecting human activity within the monitoring area of the security alarm system, by utilizing the plurality of selected security devices selected from the security devices of the security alarm system during both armed or disarmed condition, without scarifying the original alarm protection functions. The action control process includes the steps of maintaining the plurality of selected security devices of the security alarm system in functioning condition when the security alarm system is set to a standby condition; computing a predetermined period of monitoring time; detecting any motion activity occurred inside at least a monitoring area by the selected security devices installed in the monitoring area during the predetermined period of monitoring time; resetting to compute the predetermined period of monitoring time initially again when a motion activity is detected by one of the selected security devices installed in the monitoring area within the predetermined period of monitoring time; detecting no motion activity in the monitoring area by any of the selected security devices after the predetermined period of monitoring time; and activating at least an alert device to perform an alert response.

First claim

An action control process of a security alarm system comprising a control system, a plurality of security devices connected to said control system providing with at least an alert device, wherein said action control process comprises the steps of:
maintaining a plurality of selected security devices selected from said security devices of said security alarm system in functioning condition;
computing a predetermined period of monitoring time;
detecting any motion activity occurred inside at least a monitoring area by said selected security devices installed in the monitoring area during said predetermined period of monitoring time;
resetting to compute said predetermined period of monitoring time initially again when a motion activity is detected by one of said selected security devices installed in said monitoring area within said predetermined period of monitoring time;
detecting no motion activity in said monitoring area by any of said selected security devices after said predetermined period of monitoring time;
activating said alert device to perform an alert response.

66. Security system using existing network and personal computers

US6308272B1 | International Business Machines Corp

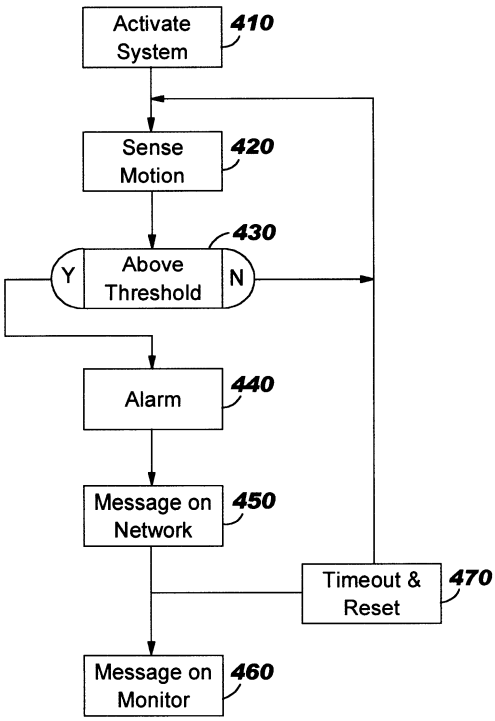
Bibliographic data

Publication date: 2001-10-23
Application date: 1998-12-21
Earliest priority date: 1998-12-21

Inventors: PEARCE JERRY W

CPC classification: G06F 21/88, G08B 25/14
IPC classification: G06F 21/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A security system using a security detector associated with a personal computer attached to an existing data transmission network, where the personal computer is effective to detect security breaches and transmit an alarm even if the personal computer is not in its operating mode. When a security breach is detected by the security detector, the data transmission network is used to report the incident to a monitoring station for appropriate logging and action. Because the security system is coupled to a data transmission network and computer resources, the security system can be remotely activated and can respond to historical sensing of a security detector to adjust its threshold.

First claim

A security system for transmitting an alarm when a security threshold is exceeded, said security system mounted to an existing data transmission network with a personal computer having a main processor attached thereto and comprising:
a security monitoring device coupled through the personal computer to the data transmission network, said security monitoring device providing an output which is related to a detected security parameter;
means within the personal computer for storing a threshold for the detected security parameter of the security device;
a sensor within the personal computer for transmitting an alarm through the data transmission network when the detected parameter of the security device exceeds the stored threshold even if the personal computer is in its non-operational state, said sensing means within the personal computer including a secondary processor which is operational even when the personal computer is in its non-operational state, whereby an alarm is transmitted when the secondary processor detects that the output of the security device exceeds the stored threshold.

67. SYSTEM FOR CALLING ATTENTION OF WANDERER

JP2001043470A | Tietech Co Ltd

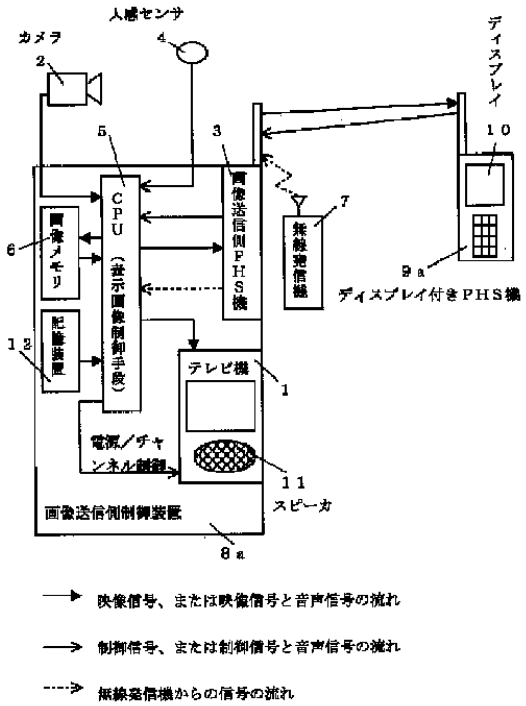
Bibliographic data

Publication date: 2001-02-16
Application date: 1999-08-03
Earliest priority date: 1999-08-03

Inventors: TANAKA HIROYUKI, MIYAJIMA BUNJI, NISHI TSUNEO

CPC classification:
IPC classification: H04N 7/18, G08B 25/00, G08B 25/10, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

(57) [Summary] [Problem] In a facility such as a hospital or a nursing home, an image of a resident or a wandering person can be received and viewed by a manager, and the manager sends a message to the sender of the image. A warning system for a wanderer who can take care of the wanderer. SOLUTION: An image transmission side control device installed at a predetermined place inside and outside a facility includes a human sensor, an image pickup means, an image transmission side radio device for communicating image data, audio data and other data, A display with a speaker, and display image control means for selecting and judging an image to be displayed on the display with the speaker are provided, and the image receiving-side control device carried by the manager manages image data, audio data, and other data. It is assumed that the wireless device has a display that can communicate.

First claim

A system for monitoring an occupant of a facility having an image transmission side control device installed at a predetermined place inside and outside a facility and an image reception side control device carried by a predetermined manager of the facility with an image, The transmitting-side control device includes a human sensor, an imaging unit, an image transmitting-side wireless device that communicates image data, audio data, and other data, a display with a speaker, and a display with the speaker. Display image control means for selecting and judging an image, wherein the image transmission-side wireless device is configured to receive radio waves emitted by wireless transmission means carried by a person related to the facility such as a staff member of the facility; The side control device is provided with a portable wireless device having a display capable of communicating image data, audio data, and other data. Meaning arouse system.

68. SECURITY SYSTEM UTILIZING INTERNET AND SERVER APPARATUSES CONSTITUTING THE SAME

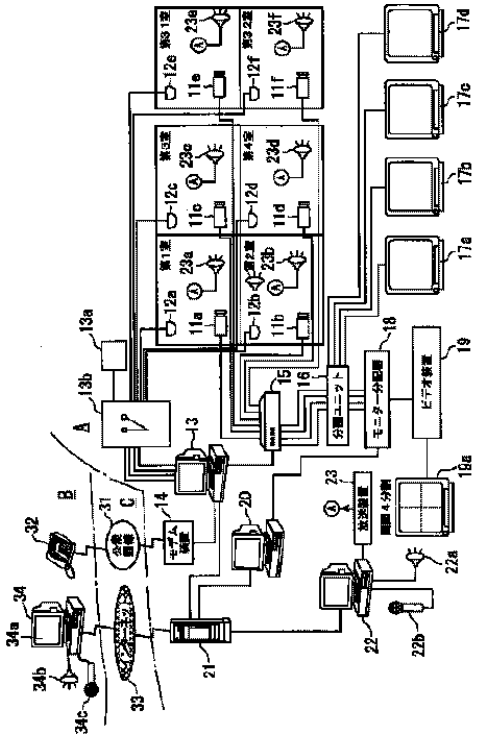
JP2002158993A | Circle One Kk, Circle One KK

Bibliographic data
Publication date: 2002-05-31
Application date: 2000-11-16
Earliest priority date: 2000-11-16

Inventors: ICHIMARU TOSHIO

CPC classification:
IPC classification: H04N 7/18

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract
PROBLEM TO BE SOLVED: To provide a security system utilizing internets which watches strangers, etc., invading even a spot distant from a monitoring area, thereby enabling the countermeasure for prevention of crime. SOLUTION: A plurality of cameras 11a-11f are disposed in a first to a thirty second rooms as a monitoring area, an SC 20 transfers image information inputted by the cameras 11a-11f to a user PC 34 connected over the Internet 33, the user PC 34 outputs the transferred image information on a monitor 34a and transfers voice information inputted by a microphone 34c to the SC 20, and the SC 20 outputs the transferred voice information via a broadcaster 23 to speakers 23a-23f in the respective rooms.

First claim
A server-side device and a client-side device connected to each other via the Internet, wherein the server-side device transfers image information of a monitored location input by a camera device to the client-side device. Means for outputting voice information of the voice information transferred by the client-side device, wherein the client-side device receives the image information transferred by the server-side device as an image and a microphone device. Means for transferring voice information to the server-side device. A security system using the Internet.

69. SYSTEM FOR MONITORING LIFE CHECK

JPH05282580A | Oki Electric Industry Co Ltd

Bibliographic data

Publication date: 1993-10-29
Application date: 1992-04-02
Earliest priority date: 1992-04-02

Inventors: 中西 康彦

CPC classification:
IPC classification: G08B 21/04, G08B 21/00, G08B 23/00, G08B 21/22, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

PURPOSE:To provide a life check monitoring system where the occurrence of an abnormal state is rapidly and scuruplously monitored without erroneous information. CONSTITUTION:A monitoring device 1-1 is arranged in a monitoring area 1, connected to a passive sensor 1-2, a magnet sensor 1-3, an absence information switch 1-7 and a clear switch 1-8 and constituted of a data processing part 1-1-1, interfaces 1-1-2 to 1-1-4, a buzzer 1-1-5 and an output terminal 1-1-6 so as to be connected to a monitoring center 2 through a cable or a communication line. The non-movement time of a person to be monitored is counted, counted time is compared with set time which is weighted at every time period and the abnormality of the person to be monitored is decided. Abnormality is also judged by environment conditions from the output of an illuminance sensor, a video sensor, an acoustic sensor, etc.

First claim

When a monitoring sensor for monitoring the movement of a monitored person in a monitoring area is provided, the movement of the monitored person is monitored from the output of the monitoring sensor, and it is determined that an abnormality has occurred in the monitored person. In the life check monitoring method including a monitoring means for notifying to a monitoring center, the monitoring means has a monitoring time slot table weighted from the importance of monitoring for each time slot, and detects from the output of the monitoring sensor. A life check characterized in that the immobility time of the person to be monitored is weighted for each time zone by the monitoring time zone table, and when the total weighted immobility time reaches a preset value, the monitoring center is notified. Monitoring method.

70. SECURITY SYSTEM

JPH11283157A | Sohgo Keibi Hosho KK

Bibliographic data

Publication date: 1999-10-15
Application date: 1998-03-30
Earliest priority date: 1998-03-30

Inventors: FUJITA HAJIME, KONNO YUTAKA

CPC classification:
IPC classification: G08B 21/00, H04M 11/04, G08B 19/00, G08B 21/22, G08B 25/00, G08B 25/08, G08B 13/19, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

PROBLEM TO BE SOLVED: To inexpensively provide a security system having a monitoring function for abnormality in life by providing a means capable of easily and inexpensively discriminating the presence/absence of a resident, integrating the monitoring function for the abnormality in life of the resident into the security system, and sharing one part of detecting sensors or all the detecting sensors. SOLUTION: This system has a security mode setting means 14 for switching an outside security mode, at-home security mode and at-home monitoring mode, a timer 16 for measuring time not to detect the presence of any person in the at-home security mode, a transmission means 18 for reporting an alarm to a prescribed monitoring center by judging the occurrence of abnormality when the timer 16 exceeds a specified time, and a control part 12 for performing various kinds of processings at the time of outside security mode and at-home modes. Thus, the presence/absence of the resident can be easily and inexpensively discriminated, and by sharing one part of detecting sensors 10 or all the detecting sensors, the security system having the monitoring function of living abnormality can be inexpensively provided.

First claim

A security device which detects presence or absence of a person in a monitored area by various sensors and reports an abnormality to a predetermined report destination, wherein an intruder is detected by the various sensors when no person is present in the monitored area. Security mode setting means for switching between an out-of-home security mode to detect and a mode at home for detecting at least a state change caused by daily life of a person in the monitored area by the various sensors when a person is present in the monitored area. Time measuring means for measuring a time when there is no state change caused by the daily life in the mode at home, and when the time measurement by the time measuring means exceeds a specific time, a person in the monitoring area is abnormal. Is determined to have occurred,

Transmitting means for reporting an abnormality to the predetermined report destination, and in the out-of-office security mode, when an intruder in the monitored area is detected by the various sensors, the abnormality is reported to the predetermined report destination, and the A security device, comprising: a control unit that performs various processes for notifying an abnormality to the predetermined notification destination when at least measurement by the time measurement unit exceeds a specific time in a mode.

71. Occupancy monitoring device and occupancy monitoring system

JP3447546B2 | Panasonic Corp, Matsushita Electric Industrial Co Ltd

Bibliographic data

Publication date: 2003-09-16
Application date: 1998-02-05
Earliest priority date: 1998-02-05

Inventors: ▲よし▼池 信幸, 橋本 和彦, 森仲 克也, 田中 真司

CPC classification:
IPC classification: G01J 1/02, G08B 23/00, G01B 21/00, G08B 25/00, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

PROBLEM TO BE SOLVED: To easily report abnormality to some other person by issuing an alarm when a person stays in a room for a long time. SOLUTION: This monitoring system is provided with a passage sensor 31 for detecting the moving direction of a human body at the respective entrances/ exits of one or plural monitoring domains having one or plural entrances/exits, a staying person monitoring device 39 for measuring the time for a person to continuously stay in a room inside the monitoring domain and issuing an alarm signal according to the time by discriminating whether the human body enters/leaves the monitoring domain based on a signal from the passage sensor 31, a central control unit 35 for integrally controlling the monitoring device 39, and a LAN 34 for communication. According to an alarm signal issued by the discrimination circuit 32, the central control unit 35 displays the condition of presence in the monitoring domain and/or issues an alarm.

First claim

A passage sensor for detecting a moving direction of a human body at each entrance / exit of a surveillance area having one or a plurality of entrances / exits, and entry of the human body into the surveillance area based on a signal from the passage sensor. A determination circuit that measures the time that a person continuously stays in the monitored area by determining the exit and issues a warning signal according to the time , and thedetermination circuit sets the initial value to 0. The number of people in the room
The output signal corresponding to entry into the surveillance area is
+1 when output from the sensor,
The output signal corresponding to leaving the room is output from the passage sensor
When added, add -1 so that the number of people in the room is 0
Becomes larger, it is determined that the person is the occupancy,the occupancy person figures, the first monitoring beginning of the monitored zone
After the start of monitoring of the monitoring area,
If it becomes smaller, reset it to the initial value.
A device for monitoring the occupancy status.

72. MEDICAL TREATMENT OF MAMMAL AND SECURITY SYSTEM IN UTILIZATION OF COMPUTER AND INTERNET

JP2002083380A | DENKA ELECTRON KK

Bibliographic data

Publication date: 2002-03-22
Application date: 2000-09-08
Earliest priority date: 2000-09-08

Inventors: MAESAKO YOSHIYUKI, ONODERA SUKEYOSHI

CPC classification:
IPC classification: G08B 21/00, H04N 7/18, G08B 13/22, G08B 25/00, G08B 25/08, G08B 25/04, G08B 13/196

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

PROBLEM TO BE SOLVED: To provide a system for saving the life of an important animal, reducing greatly the loss of administrative expenses and persons related to medical treatment, and heightening security, in the background that such cases that an abnormality is unnoticed to reach a serious matter occur frequently and that a great amount of damage is generated in breeding mammals erectable by two or more legs. SOLUTION: A software having an inputted system is incorporated into a computer in a center by utilizing an internet, and a stable or one building is administered by using a CCD camera. When the abnormality occurs, the abnormality is discovered instantly by emission of a red frame of a divided display screen in an intensive administration center at the abnormal time, and reported to a designated doctor or a manager of a ranch, and an electric leak, a spark or the like are prevented beforehand by controlling an electric circuit, and when a failure or an outbreak of fire occurs, it is reported automatically to the fire authorities. The CCD camera discriminates a recognition plate attached to a helmet or the like by the body in the center through the internet, to enable to confirm a trespasser.

First claim

In the management of mammals that can stand upright with two or more feet, monitor the inside and outside of the (stable) using a CCD camera that is unmanned and using the Internet. The system aims to significantly reduce administrative costs and loss of medical personnel while also ensuring security by detecting changes in birth and childbirth, and confirming intruders by identification plates using helmets or batches. Have.

73. Monitor control apparatus

US4839631A | Mitsubishi Electric Corp

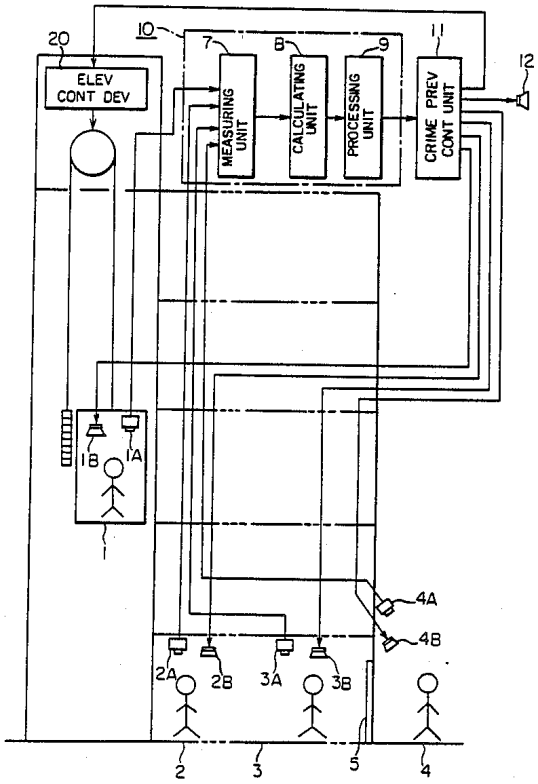
Bibliographic data

Publication date: 1989-06-13
Application date: 1988-06-17
Earliest priority date: 1985-05-14

Inventors: TSUJI SHINTARO

CPC classification: B66B 5/0012, G08B 13/00, G08B 31/00
IPC classification: G08B 13/00, B66B 5/00, B66B 3/00, G08B 31/00, G08B 13/196

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A monitor control apparatus for preventing crimes commited within or in the vicinity of a building in which movements of individuals are detected to determine the behavior thereof. Upon detection of suspicious behavior, predetermined functions are executed to alert appropriate authorities, and alarms are issued. Various time intervals, such as waiting periods during which a individual remains within a designated are and the periods during which the individual moves with a certain speed are determined on the basis of tracking movements so that actions considered to be of a suspicious nature are detected and appropriate responses are executed in a timely manner.

First claim

In an elevator system including a plurality of cages for servicing a plurality of floors in a building,
a monitor control apparatus determining movements of passengers within designated areas and executing predetermined functions in accordance therewith so as to prevent crimes from being committed within and in the vincinity of the cages, said monitor control apparatus comprising:
measurement means monitoring images of individual passengers on a time basis for tracking passenger movements within designated areas and for generating tracking signals representative thereof;
analyzing means responsive to the tracking signals for analyzing the monitored images and determining behavior representing time-based patterns of movements of the individual passengers and for generating a feature signal indicative thereof; and
decision means responsive to the feature signal generated by said analyzing means to output a command signal for executing predetermined functions when the feature signal based on the monitored images satisfies a condition representing a given time-based behavior pattern of an individual passenger.

74. Remote remind system for dementia patient

KR100376252B1 |

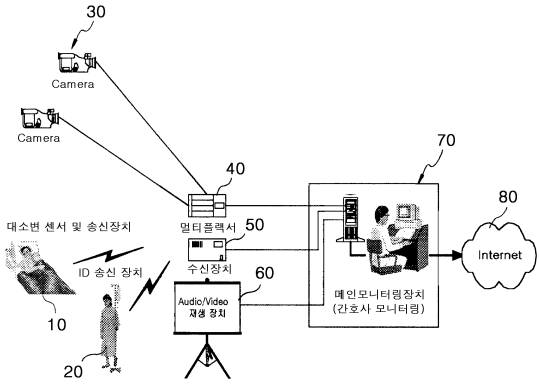
Bibliographic data

Publication date: 2003-03-15
Application date: 2000-03-02
Earliest priority date: 2000-03-02

Inventors: 고대식, 박준석

CPC classification:
IPC classification:

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

The present invention relates to a remote monitoring and reminding system and method for applying information communication technology such as sensor, wired / wireless communication technology, DB management and video transmission to welfare and medical fields. According to the present invention, a wireless sensor is attached to a patient, an image is captured through a camera, and an audio / video playback device is installed so that the main monitoring device remotely monitors the condition and image of the patient and reminds the patient according to the patient's location. Silver system for remote monitoring and reminding treatment to control audio / video playback for the system and detect sensor signal of each patient to notify monitor personnel when patient's status changes and display patient status information on monitor A status monitoring function; A reminder control function for detecting the position of the patient and controlling the audio / video playback for reminding treatment of the audio / video to be applied to the patient by means of a predetermined remind scheduling; Web monitoring that controls remote access requestor's access approval requesting access through the Internet, compresses the database information of the patient who is requested to be monitored and the real-time video of the patient and sends it to the Internet for remote monitoring service through the website. It provides a function and manages each patient's information in database so that it can be used for statistics and treatment.

First claim

delete

75. MONITORING SYSTEM

JPH1145379A | Sanyo Electric Co Ltd

Bibliographic data

Publication date: 1999-02-16
Application date: 1997-06-05
Earliest priority date: 1997-05-27

Inventors: KUWANO YUKINORI, OKINO TOSHIYUKI, IKEDA TAKASHI, MURATA HARUHIKO

CPC classification:
IPC classification: G08B 25/00, G08B 13/196

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

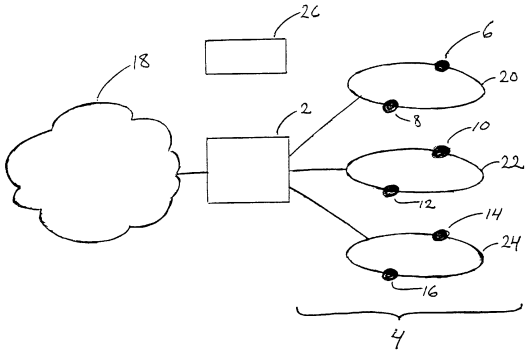
PROBLEM TO BE SOLVED: To automatically detect the invasion of a man from outside a monitoring area into the monitoring area and to inform a monitoring man of it by providing a monitoring means monitoring the monitoring area and a means outputting information on the movement of an object in the monitoring area. SOLUTION: The output of a video camera 1 is sent to a monitor 2, a recording device 3 and a monitoring controller 4. An image which is picked up by the video camera 1 is always displayed on the monitor 2 and the recording device 3 is controlled by a control signal from the monitoring controller 4. When the movement of the object exists in at least one detection area, the man is judged to invade into the monitoring area. An alarm 44 is driven for informing the monitoring ma of it and recording by the recording device 3 is started by recording an invader. Then, a monitoring display lamp 45 is turned off. When the monitoring man inputs an alarm stop command by an operation part 46, the driving of the alarm 44 is stopped. When a recording stop command is inputted, the recording device 3 stops recording.

First claim

Monitoring system on the basis of the output of the monitoring means and monitoring means for monitoring claimed is claim 1 the monitoring region is provided with a means for detecting information about the motion of an object in the monitored area.

76. EXECUTING ACTIONS IN AN INFORMATION SYSTEM TO PROVIDE ALARM

WO2002023499A1 | ERICSSON TELEFON AB L M



Bibliographic data

Publication date: 2002-03-21
Application date: 2001-09-07
Earliest priority date: 2000-09-14

Inventors: NYMAN HANS, HAELLSTROEM MIKAEL

CPC classification: G08B 21/10, G08B 25/016, H04L 12/2807, H04L 12/2827, H04L 2012/285
IPC classification: H04L 12/28, G08B 21/10, G08B 25/01

External links: Google Patents, Espacenet, EP Register, Patentscope, PatBase Express, PatBase, Orbit

Abstract

The invention relates to an arrangement for and a method of executing actions in an information system in a building to provide an alarm to assist persons. This is achieved by the use of a method of executing at least one predefined action in an information system in a building in response to the occurrence of at least one predefined sequence of activation of at least two of said devices. The execution of an action may in addition be based on timing information. The means for executing a predefined action is a service gateway (2). The arrangement also comprises a local net (4) attached to the service gateway (2) and one or more devices (6, 8, 10, 12, 14, 16) attached to the local net (4). The means for defining sequences of activated devices (6, 8, 10, 12, 14, 16) and actions is a portal (26). The portal (26) is also used to set parameters, functions and limits for the devices (6, 8, 10, 12, 14, 16).

First claim

A method of executing actions in an information system in' a building, said system including a number of devices that are able to be activated by actions of a person or persons in said building, to provide an alarm to assist said person or persons, characterized in, that the method comprises the step of executing at least one predefined action in response to the occurrence of at least one predefined sequence of activation of at least two of said devices.

77. SECURITY SYSTEM AND METHOD FOR MONITORING IMAGE DATA AT OUTSIDE

KR20010007700A | HOTAEWANG CO LTD

Bibliographic data

Publication date: 2001-02-05
Application date: 2000-05-19
Earliest priority date: 2000-05-19

Inventors: PARK JU HAN

CPC classification: G06Q 50/10, G08B 13/196, G08B 25/00
IPC classification: G06Q 50/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

The present invention relates to a security system that protects the safety and property of the customer, and more particularly to a remote video surveillance service method that allows the customer to look at the desired place anytime, anywhere through the Internet or telephone lines. Security system and remote video surveillance service method using the same according to the present invention is connected to the customer control terminal device, the central control center, the remote control customer and the emergency center where the camera to shoot the image is installed in a predetermined position through a commercial communication network In the security system, and taking the image by the camera of the customer control terminal device and compressing it, and transmitting the compressed image data to the central control center through the communication network; Storing and restoring compressed image data received from each customer control terminal at the central control center; When there is a real-time video service request from the remote customer confirmed by the authentication procedure, the central control center converts the video data received from the customer control terminal device into processed video data required for the remote customer and transmits the processed video data to the remote customer. Steps; And reproducing the image data transmitted from the central control center at the remote customer to check the situation of the customer control terminal apparatus as an image.

First claim

In a remote video surveillance service method in a security control system in which a customer control terminal device having a camera for photographing an image is installed at a predetermined position, a central control center, a remote customer, and an emergency center are connected through a commercial communication network,
Capturing an image by a camera of the customer control terminal device and compressing the image, and then storing the compressed image data in a storage unit of the customer control terminal device and simultaneously transmitting the compressed image data to the central control center through the communication network. Wow,
In the central control center for storing or restoring the compressed image data received from each customer control terminal device;
When there is a real-time video service request from the remote customer confirmed by the authentication procedure, the central control center converts the video data received from the corresponding customer control terminal device into processed video data required for the remote customer and transmits it to the remote customer. Steps,
And reproducing the image data transmitted from the central control center at the remote customer to check the situation of the customer control terminal apparatus as an image.

78. Prisoner tracking and warning system and corresponding methods

US6437696B1 | LEMELSON JEROME H., PEDERSEN ROBERT D., HIETT JOHN H.

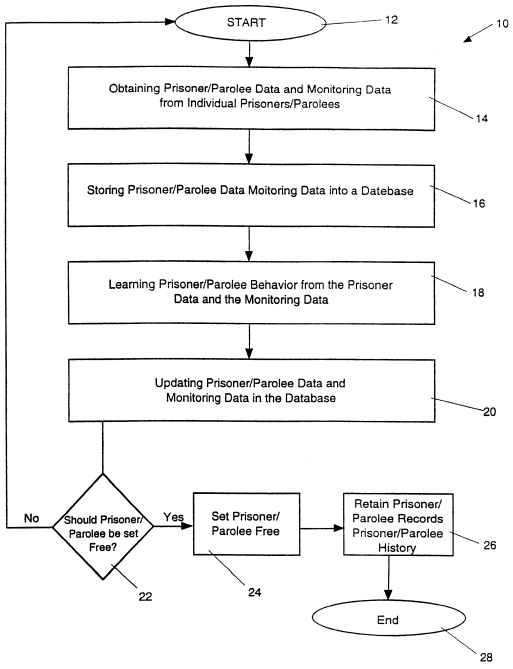
Bibliographic data

Publication date: 2002-08-20
Application date: 2000-02-28
Earliest priority date: 1998-06-04

Inventors: LEMELSON JEROME H, PEDERSEN ROBERT D, HIETT JOHN H

CPC classification: G08B 21/0233, G08B 21/0423, G08B 21/0453, G08B 21/0469, G08B 21/22
IPC classification: G08B 23/00, G01S 19/19

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

The present invention discloses a general overall system 30 and a general overall method 10 for tracking, monitoring, and learning prisoner or parolee behavior. The system 30 and method 10 involve obtaining prisoner or parolee data and monitoring data for at least one individual prisoner or parolee 38, storing the prisoner or parolee data and monitoring data into a database, learning prisoner or parolee behavior from the prisoner or parolee data and the monitoring data in the database, and updating the prisoner or parolee data and the monitoring data in the database. The present invention involves learning both individual and aggregate prisoner or parolee behavior from the prisoner or parolee data and the monitoring data in the database. The present invention executes expert system (i.e. including but not limited to fuzzy logic, reinforcement learning, neural networks, artificial intelligence, etc.) algorithms for determining and analyzing deviated behavior by the prisoner or parolee 38. The present invention system 30 and method 10 is able to assign a parole level to the prisoner or parolee 38 and determine whether the prisoner or parolee 38 is to be moved up or down a parole level depending on whether the prisoner or parolee behavior does not constitute or does constitute prisoner or parolee violations. Furthermore, the present invention tracks, monitors, and learns the behavior of the prisoner or parolee 38 by controlling and regulating the permitted/prohibited locations or sectors, the permitted/prohibited location or sector dwell times, the permitted/prohibited travel routes, the permitted/prohibited travel times that the prisoner or parolee 38 spend at or between various locations.

First claim

A system to monitor a subject comprising:
a) a monitoring station computer having a first file including reference behavior data of one class of individual to be monitored;
b) a second file in the monitoring station computer including behavior data defining the subject to be monitored;
c) a defined set of allowed activities for the class of individual being monitored programmed into the monitoring station computer;
d) a remote monitoring transmitter and receiver attached to the subject periodically transmitting data to the monitoring station computer;
e) a satellite global positioning system cooperating with the transmitter and receiver attached to the subject to determine the subject's current location;
f) a program in the monitoring station computer to analyze the data transmitted from the remote monitoring transmitter to determine if there are variations from the allowed activities and if there are variations the generate a first alarm signal;

g) an expert system associated with the monitoring station computer, the expert system programmed to recognize a continuum of degrees of alarms based on a comparison of the variation of the behavior data defining the subject to be monitored, and the reference behavior data of the monitored subject;
h) a second alarm signal generated by the expert system defining a specific recommend course of action appropriate in the case of the monitored subject.

79. MONITORING DEVICE

JP2000036086A | NIKKO DENSHI KOGYO KK, Nikko Co Ltd, Nikko KK

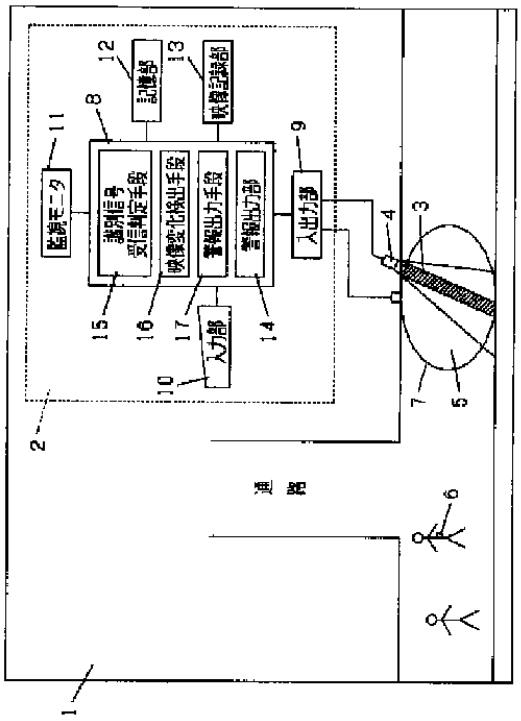
Bibliographic data

Publication date: 2000-02-02
Application date: 1998-07-17
Earliest priority date: 1998-07-17

Inventors: YAMAGATA SHOSUKE, OKUYAMA MASASHI, INOUE YUICHIRO

CPC classification:
IPC classification: A61B 5/00, H04N 7/18, H04N 5/44, H04N 5/60, H04N 7/16, G08B 25/04, G08B 13/196

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

PROBLEM TO BE SOLVED: To provide a monitoring device for identifying a monitoring object person even when the monitoring object person does not carry a small-sized identification signal transmitter and simultaneously issuing an alarm to a monitoring person when the monitoring object person enters a monitoring area. SOLUTION: The small-sized identification signal transmitter 6 for originating identification signals is carried by a non-monitoring object person, and when a video change detection means 16 detects change for the video image of the monitoring area 3 photographed by a monitoring camera 4 which is a monitoring area photographing means, an identification signal reception judgement means 15 judges whether or not an antenna 7 for identification signal reception which is an identification signal reception means receives the identification signals originated from the small-sized identification number transmitter 6. In the case of not receiving them, it is defined that the monitoring object person not carrying the small-sized identification signal transmitter 6 is present in the monitoring area 3 and the alarm is issued to a monitoring person by voice from an alarm output part 14 by an alarm output means 17.

First claim

A small identification signal transmitter which is possessed by a non-monitoring subject and emits an identification signal; identification signal receiving means disposed in a monitoring area for receiving a signal of said small identification signal transmitter; Identification signal reception determining means for determining whether or not an identification signal has been received by signal receiving means; monitoring area photographing means for projecting the monitoring area; and image change detecting means for detecting a change in an image photographed by the monitoring area photographing means And an alarm output unit that issues an alarm to a monitor when the identification signal reception determination unit determines that the identification signal has not been received when the image change detection unit detects a change in the image in the monitored area. A monitoring device characterized by comprising

80. Interactive wireless home security detectors

US6762686B1 | Google LLC

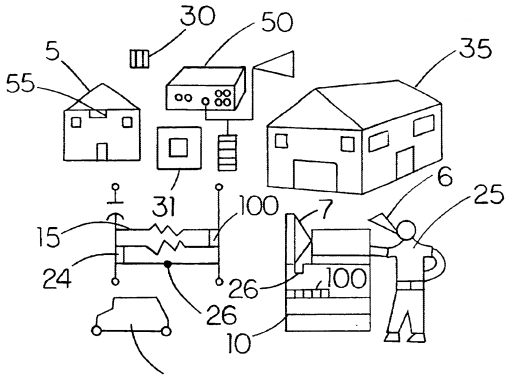
Bibliographic data

Publication date: 2004-07-13
Application date: 2002-05-20
Earliest priority date: 1999-05-21

Inventors: TABE JOSEPH A

CPC classification: G08B 25/08
IPC classification: G08B 25/08

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

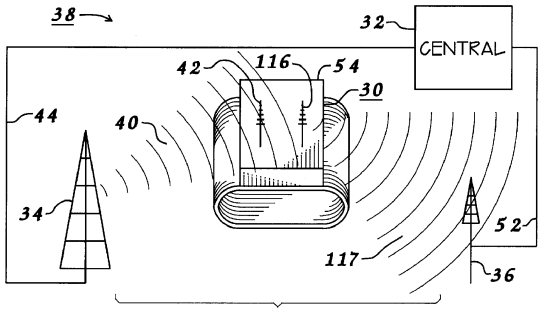
The wireless home security detector monitors fire, smoke, and home security to protect the home. The wireless home security detector dials the proper authorities in the event of an emergency. An alarm will come on in seconds after the smoke or fire is detected. When the fire alarm is activated, it will emit a special code that will activate the passive infrared motion detector that will check for any body heat inside the home. If body heat is detected, the infrared motion detector will activate an alarm responsive to detecting the location of a person; and include a human voice response. This alarm will keep sounding if body heat is detected and it will also monitor the body heat location as the person moves from one room to the other. The motion detector will stay on in the occupied room as an indication that a person has been located inside the room, to aid authorities in an emergency. A programmable microprocessor is used for receiving, storing and processing data from the interactive detectors, the interactive alarms and the human body sensors, and a reporter is used to transmit sensed alarm activities to selected proper authorities in the presence of an emergency.

First claim

An interactive wireless home security detector apparatus, comprising:
a) a first set of interactive detectors, each of the first set of interactive detectors being selected to detect at least one of smoke, fire, head, and freezing temperature, and a second set of interactive detectors, each of the second set of interactive detectors being selected to detect at least one of selected sounds, motion, and unauthorized entry;
b) at least one human body sensor for detecting the location of a human body within a home, each human body sensor having a transmitting and receiving means for enabling networking and wireless communication signals with the first set and the second set of interactive detectors;
c) at least one alarm, for signaling actuation of at least one of the first set and the second set of interactive detectors, and for signaling actuation of at least one human body sensor for indicating the presence of a human body within the home upon actuation of at least one of the first set and second set of interactive detectors;
d) at least one transmitter for transmitting a coded signal from at least one of the first set and second set of interactive detectors;
e) at least one receiver, for receiving the coded signal from the transmitter;
f) a programmable microprocessor for receiving, storing and processing data from the receiver; and
g) a programmable reporter for inputting programming from the programmable microprocessor to the first set and second set of interactive detectors, and for selectively reporting sensed alarm activities to selected proper authorities in the presence of an emergency detected by at least one of the first set and the second set of interactive detectors, to initiate a rescue.

81. Monitoring system

US6160481A | Michelle Enterprises LLC



Bibliographic data

Publication date:	2000-12-12
Application date:	1999-01-12
Earliest priority date:	1997-09-10
Inventors:	TAYLOR JR JOHN E
CPC classification:	A61B 2503/08, A61B 2560/045, A61B 5/0022, A61B 5/01, A61B 5/02055, A61B 5/021, A61B 5/024, A61B 5/0816, A61B 5/1112, A61B 5/14546, A61B 5/14551, A61B 5/681, A61B 5/6822, A61B 5/6826, A61B 5/6829, A61B 5/7465, G08B 21/0211, G08B 21/0227, G08B 21/0286, G08B 21/0288, G08B 21/22, G16H 40/67
IPC classification:	G08B 21/00, G08B 21/02, G08B 25/00
External links:	Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A monitoring system provides for monitoring of a person and taking an action to dissuade the person from a course of action. The system has a device attached to the person which includes mechanisms to provide for an intervention to dissuade the person from the course of action. The intervention may be in the form of delivery of either a medication or an electrical shock to the person. The system may further include monitoring of a bodily function of the person or positional tracking of the person. Various scenarios are described to provide for activation of the intervention. The system may include a second device in possession of a restrictor person with positional tracking of this person and comparison relative to the positional location of a restrictee person.

First claim

A monitoring system to provide for monitoring a plurality of monitored persons, the monitoring system comprising:
a) a portable monitoring device for each of the monitored persons, each portable monitoring device comprising:
1) securing means to provide for secure attachment of the portable monitoring device to a respective monitored person;
2) monitoring means to provide for detecting a bodily signal produced by the monitored person;
3) transmitting means to provide for transmission of a signal;
4) tamper detection means to provide for detecting tampering with the portable monitoring device attached to the respective monitored person;
5) receiving means to provide for receiving a distinct signal generated by a detached sending unit;
6) intervention means to provide for a mechanical intervention to physically dissuade the respective monitored person from a specific course of action;
b) transmission acquisition means to provide for receiving the signals sent out by each of the portable monitoring devices;
c) bodily signal reference creation means to provide for creation of a bodily signal reference as detected by the monitoring means; and
d) storage means to provide for an archival retention within a database of at least a series of bodily signal references of each of the portable monitoring devices of the monitoring system.

82. PICTURE MONITORING METHOD AND SYSTEM THEREFOR

JPH09330415A | Hitachi Ltd

Bibliographic data

Publication date: 1997-12-22
Application date: 1996-06-10
Earliest priority date: 1996-06-10

Inventors: KONUMA CHIEKO, KOBAYASHI YOSHIKI, MURAMATSU SHOJI

CPC classification:
IPC classification: G06T 1/00, H04N 7/18, H04N 5/225, G08B 25/00, G06T 7/20, G08B 15/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

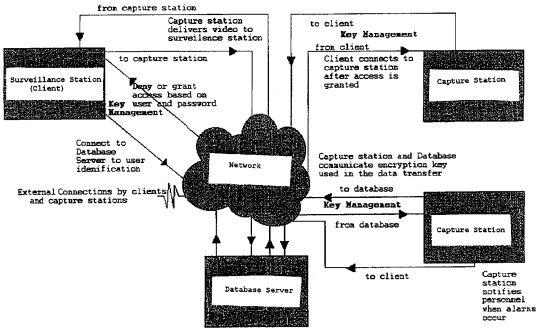
PROBLEM TO BE SOLVED: To provide a picture monitoring system selecting a judging algorithm suited to a monitoring condition. SOLUTION: Pictures of plural monitoring areas photographed in a prescribed period by a camera 100 is analyzed by a human body extraction part 300 to extract human body pictures by each area. A human body monitoring part 600 successively fetches the human body picture by each monitoring area to calculate a moving locus. In addition, the monitoring environment of a monitoring object is obtained from a present date (year, month, day and time). When the object is a store, monitoring environment is the opening or closing of the store. A processing mode previously set in a monitoring mode table 705 to the set of this monitoring environment and a monitoring area is read out. For example some moving locus is judged to be an entering person to the store in a processing mode 1 (a monitoring area including an entrance/exit and opening the store) and is judged to be an intruder in a processing mode 4 (a monitoring area excluding no entrance/exit and closing these store).

First claim

An image monitoring method for monitoring a person's behavior with respect to a monitoring target based on a movement trajectory of the person, which is obtained by time-sequentially capturing images of the surroundings of the monitoring target such as a building, and subjected to predetermined image processing. Alternatively, the image monitoring method is characterized in that a time-dependent environment such as a pause is obtained from the current time, a processing mode suitable for the environment is selected, and the action of the person on the movement locus is determined.

83. SURVEILLANCE SYSTEMS

CA2228679A1 | GRIDZERO TECHNOLOGIES INC.



Bibliographic data

Publication date: 1999-08-04
Application date: 1998-02-04
Earliest priority date: 1998-02-04

Inventors: HEGGIE MURRAY, HICKIE THOMAS WILLIAM

CPC classification: G08B 13/19602, G08B 13/19656, G08B 13/19669, H04N 7/18
IPC classification: H04N 7/18, G08B 13/194, G08B 13/196

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

An on-line surveillance system for monitoring and recording activity at a remote location is described. Monitoring devices, such as cameras, are capable of continually surveying selected zones at the remote location, detecting activity such as motion, and providing an alarm to a monitoring station when motion is detected. Each camera's output is stored in dynamic memory such that activity occurring within a selected interval prior to initiation of an alarm is retained. Similarly, each camera's output recorded during the alarm period is stored in memory.

First claim

A surveillance system comprising:
a capture station having monitoring means to detect and dynamically record events occurring at a selected location;
a surveillance station remote from said capture station and connected thereto via a communications network, said surveillance station selectively monitoring said capture station and receiving notification of an event occurring at said selected location; and
a database server connected to said capture station and said surveillance station to support operation thereof, said database having storage means to retain a record of selected events.

84. Monitoring of system

KR20000037058A | LEE JIN SAM

Bibliographic data

Publication date: 2000-07-05
Application date: 2000-04-06
Earliest priority date: 2000-04-06

Inventors: LEE JIN SAM

CPC classification:
IPC classification: H04L 12/26, H04W 24/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

The present invention installs Web Cams where necessary, such as school classrooms, hospitals or homes, and can be viewed through a PC when the user is at home, as well as through a wireless mobile phone when going out of the classroom or ward or at home The present invention relates to a monitoring system that makes it easy to see the situation of a house.

First claim

A plurality of web cams installed in the classroom, hospital room or home, for monitoring,
An image processing unit for processing an image monitored by the web cams;
A process controller which receives a result processed by the image processor to determine a situation and outputs a signal of a predetermined level when an abnormal state occurs;
A dialing unit and a telephone for automatically dialing a specific telephone number upon inputting a signal of a predetermined level from the process control unit;
A wireless public communication network for transmitting a signal wirelessly according to the dialing of the dialing unit;
And a mobile phone configured to exchange signals wirelessly with the wireless public communication network and view images monitored by the webcam.

85. Portable motion detector and alarm system and method

US6542078B2 | SCRIPT SECURITY SOLUTIONS LLC

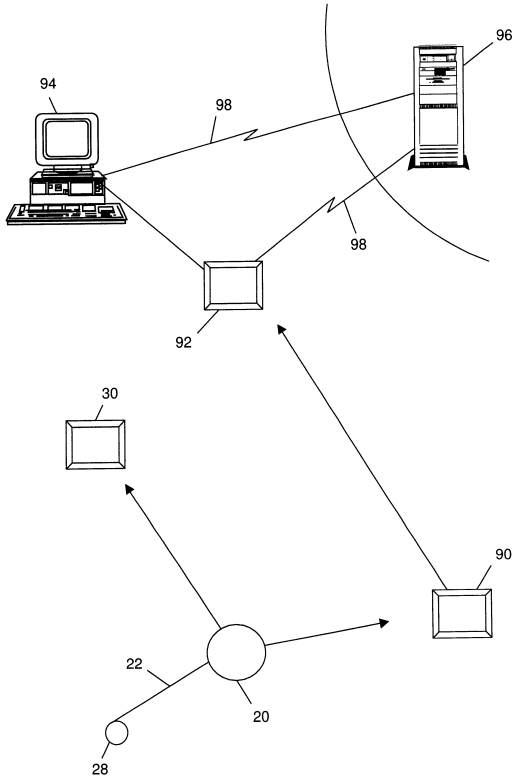
Bibliographic data

Publication date: 2003-04-01
Application date: 2001-02-16
Earliest priority date: 1996-05-30

Inventors: SCRIPT HENRY J, SCRIPT MICHAEL H

CPC classification: G08B 13/08, G08B 13/19695, G08B 25/008, G08B 25/016
IPC classification: G08B 13/08, G08B 13/22

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A portable security alarm system which can be installed on a temporary basis and removed from an object whose movement is to be detected including a motion detecting and radio signal transmitting member for mounting proximate the object whose movement is to be detected, a member for selectively coupling and decoupling the motion detecting and radio signal transmitting member relative to the object whose movement is to be detected, a combined radio signal receiving and alarm generating member for receiving a signal from the combined motion detecting and radio signal transmitting member and producing an alarm, a remote control for actuating and deactuating the radio signal receiving and alarm generating member, an information gathering device adapted to receive the predetermined signal, to gather information relating to the movement, and to transmit the information, and a remote notification device adapted to receive the information from the information gathering device, to establish data communication with a remote host, and to provide the information to the remote host.

First claim

A system for detecting the movement of an object and providing information relative to said movement to a remote location comprising an object whose movement is to be detected, a detector adapted to detect movement of said object and provide an indication of said movement, a first transmitter associated with said detector and adapted to wirelessly transmit a predetermined signal in response to said indication, an information gathering device adapted to receive said predetermined signal, to gather information relating to said movement, and to transmit said information, and a remote notification device adapted to receive said information from said information gathering device, to establish data communication with a remote host, and to provide said information to said remote host.

86. Portal intrusion detection apparatus and method

US6720874B2 | IDS Systems Inc

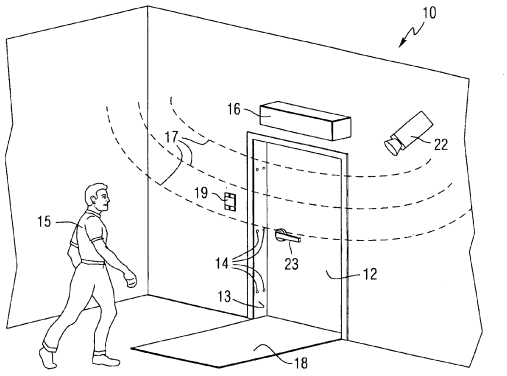
Bibliographic data

Publication date: 2004-04-13
Application date: 2001-09-28
Earliest priority date: 2000-09-29

Inventors: FUFIDIO MICHAEL VINCENT, BALDASSARRE GIUSEPPE PINO, MOFFAT REGINALD GARY

CPC classification: G07C 9/00563, G07C 9/22, G07C 9/28, G07C 9/32, G08B 13/08, G08B 13/183
IPC classification: G07C 9/00, G08B 13/08, G08B 13/183

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

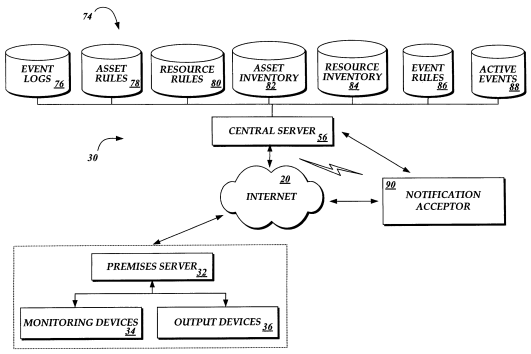
A portal access control system is disclosed for preventing unauthorized entry from a public area into a secure area. The system utilizes input from several different sensors, including: passive IR sensors, motion detectors, photo detectors and authentication devices. Also, the passage time of an individual through the open portal may be determined. Based on selected combinations of one or more sensor inputs, the portal access control system can detect passage into the secure area by a lone perpetrator and also by tailgating behind an authorized user.

First claim

A security system for controlling access by a person through a controlled portal, defined by a frame comprising two vertical members and an interconnecting horizontal member, comprising:
an authentication device to which a person seeking passage through the portal provides certain identifying information to determine whether the person is authorized to pass through the portal;
a locking device for retaining the portal in a locked mode and for unlocking of the portal when the person is authorized to pass therethrough;
a sensor mounted on one or both of the vertical members of the portal frame for determining the passage of a user through the portal and for providing a first signal representative thereof; and
a controller responsive to said first signal for providing a second signal if the number of persons passing through the unlocked portal is greater than the number of persons authorized to pass through the portal.

87. SYSTEM AND METHOD FOR PROVIDING CONFIGURABLE SECURITY MONITORING UTILIZING AN INTEGRATED INFORMATION SYSTEM

WO2002027518A1 | VIGILOS INC, BARKER GEOFFREY T, BAHNEMAN LIEM, ANDERSON CLAIRE, ALEXANDER BRUCE, TALLEY PAUL, SWENSON MARCUS



Bibliographic data

Publication date: 2002-04-04
Application date: 2001-09-28
Earliest priority date: 2000-09-28

Inventors: BARKER GEOFFREY T, BAHNEMAN LIEM, ANDERSON CLAIRE, ALEXANDER BRUCE, TALLEY PAUL, SWENSON MARCUS

CPC classification: H04L 41/0893, H04L 41/18, H04L 41/22, H04L 43/16, H04L 63/0263, H04L 63/10, H04L 63/1416, H04L 67/025, H04L 67/08, H04L 67/34, H04L 69/329
IPC classification: H04L 12/24, H04L 12/26, H04L 29/08, H04L 29/06

External links: Google Patents, Espacenet, EP Register, Patentscope, PatBase Express, PatBase, Orbit

Abstract

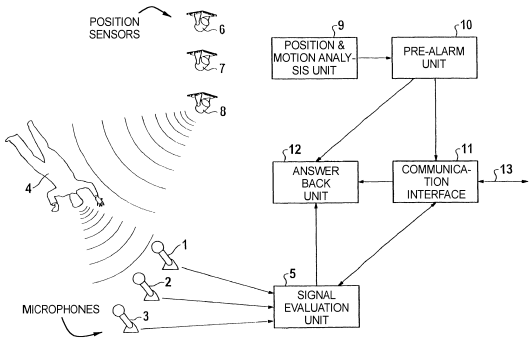
A system and method for implementing an integrated information system is provided. A premises server (32) is in communication with a variety of information sources that produce monitoring data for a premises. The premises server collects, presents, and transmits the monitoring device data to a central server (56) over the Internet (20). Where the central server is capable of processing data from multiple premises servers. The central server receives the data and traverses one or more logical rule sets to determine whether thw inputted data violates the rules. Based on an evaluation of the rules, the central server generates output in the form of communication to one or more authorized users via a variety of communication mediums and devices and/or the instigation of a variety of acts corresponding to the evaluation of the rules.____

First claim

A method for providing an integrated information system in a system having at least one monitoring device, the method comprising: obtaining monitoring device data from the at least one momtoring device; obtaining one or more rules corresponding to the at least one momtoring device, wherein the one or more rules establish a threshold for the monitoring device data; processing the monitoring device data according to the monitoring rules; and generating an output corresponding to the processing of the monitoring device data, wherein the output may include no output.

88. Home emergency warning system

US6313743B1 | Siemens AG



Bibliographic data

Publication date: 2001-11-06
Application date: 2000-04-06
Earliest priority date: 1997-08-01

Inventors: ABRAHAM-FUCHS KLAUS, BIRKHOELZER THOMAS, HEROLD ALEXANDER, REICHENBERGER HELMUT, SCHMIDT VOLKER, SEIFERT HENRICH

CPC classification: G08B 21/02, G08B 21/0415, G08B 21/0469
IPC classification: G08B 21/04, G08B 21/00, G08B 21/02

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

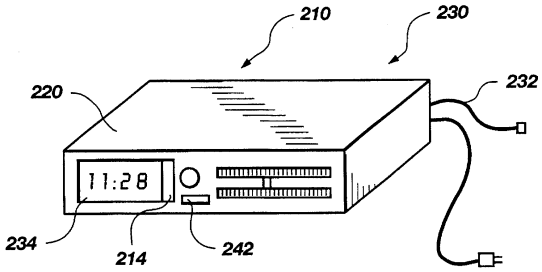
In an autonomous emergency monitoring system, wherein the user need not carry any signaling devices whatsoever, an emergency situation can be reported to an external receiver by voice input via microphones via a communication interface. Further, a monitoring of the person can ensue via sensor systems that can likewise setup an external connection via the communication interface.

First claim

An emergency monitoring system for a dwelling, comprising:
a plurality of signal pick-ups for non-contacting passive interaction with a person within a dwelling, said signal pick-ups having respective pick-up ranges for covering an entire area of said dwelling and including a plurality of position sensors, each generating a signal dependent on a position of said person in said dwelling;
a signal evaluation unit connected to said signal pick-ups, including a position and motion analysis unit for analyzing the respective signals from said sensors to identify the position of said person in said dwelling and to determine if an emergency situation exists based on the position of said person in said dwelling; and
a communication interface connected to said signal evaluation unit for transmitting a signal to an external receiver if said emergency situation is found to exist.

89. Concealed security system

US5546071A | ZDUNICH; GORDON L.



Bibliographic data

Publication date: 1996-08-13
Application date: 1995-03-06
Earliest priority date: 1995-03-06

Inventors: ZDUNICH GORDON L

CPC classification: G08B 13/1409, G08B 15/001
IPC classification: G08B 13/14

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A concealed security system is disclosed including a security sensor which is disposed in conventional appliances, such as televisions, video cassette recorders, telephones and the like. The security sensors are disposed so as to blend with the components of the appliance and thereby be generally unnoticeable to intruders. In accordance with one aspect of the invention, the normal functioning of the appliance is modifiable so as to disguise an indication signal which indicates to the user that the sensor is activated.

First claim

A concealed security system comprising:
a household appliance selected from the group consisting of a television, a video cassette recorder, and a clock, the appliance including a housing with an outer wall and a control panel forming a portion of the outer wall, the control panel being in communication with a processing means;
security sensing means for monitoring an area and detecting the presence of a person within the area, the security sensing means being disposed in the outer wall of the housing so as to have an appearance indistinguishable from the outer wall, and electronically connected to the control panel, said sensing means being responsive to a control signal generated by the control panel, for activating and deactivating the security sensing means; and
communication means disposed at least partially within the household appliance for communicating with a remote location so as to indicate when the security sensing means detects the presence of a person within the area, the communication means comprising a telephone line.

90. Personal position detector

JP2562670B2 | Ei Tei Shii Kk, HAZAMAGUMI KK

Bibliographic data

Publication date: 1996-12-11
Application date: 1988-07-29
Earliest priority date: 1988-07-29

Inventors: SAKAMURA TAKESHI, KOIZUMI HIROMASA, NOHARA SETSUO, YAMAMOTO JUICHI, NAKANO KOICHI, MOROKUMA TATESHI

CPC classification:
IPC classification: G08B 13/22, G08B 13/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

PURPOSE: To prevent the intrusion of the outsiders by collating the individual position identifying reference data with the individual identifying reference data stored in a memory by a computer and deciding the specific one of plural areas where a specific individual exists.

First claim

A personal position identification means having a presence / absence detector for detecting the presence / absence of a person, a personal data detector for detecting specific data of the person, and a position detector for constantly detecting the position of the person in a predetermined area. Provided at a plurality of locations across the entire floor, collate the output data of the personal position identification means and the personal identification reference data stored in advance in the memory, determine which of the plurality of locations the person is, A personal position detecting device comprising a computer that counts the number of times of movement at each position, and a display device that displays the determination result and the number of times of movement so that the direction and position of the person moving can be predicted.

91. CARTRIDGE FOR AN INKED RIBBON WITH A RE-INKING DEVICE

ZA887793B | OLIVETTI & CO SPA

Bibliographic data

Publication date: 1989-07-26
Application date: 1988-10-19
Earliest priority date: 1987-10-20

Inventors: SOLERO GIORGIO, GIORGIO SOLERO, FERRARA GIUSEPPE, GIUSEPPE FERRARA

CPC classification: B41J 31/16, B41J 32/02
IPC classification: B41J 32/02, B41J 31/16

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A RETINTING DEVICE (11) IS APPLIED TO A CARTRIDGE (12) THAT INCLUDES A DEPOSIT (13) THAT HAS A CARTRIDGE DEPOSIT (34) TO ACCOMMODATE A TINTED RIBBON (32) OF THE CLOSED ROLL TYPE WITH LOOSEN RIBBON, AND A PAIR OF TOOTHED ROLLS (43) FOR UNIDIRECTIONAL FEEDING OF THE TAPE (32). THE RESETTING DEVICE (11) INCLUDES AN INK RESERVE (51), WHICH IS STAYED IN A CLOSED HOUSING (53) DETACHABLE IN THE DEPOSIT (13), AND MEANS FOR MEASURING THE INK (52) THAT HAVE AN INTERNAL AND AN EXTERNAL PART. THE INTERNAL PART IS INSERTED THROUGH AN OPENING (74) WITHIN THE INTERIOR OF THE CASE (53) AND THAT IS ADJUSTED WITH THE RESERVE (51); THE EXTERNAL EXTERNAL PART IS IN CONTACT WITH THE EXTERNAL SURFACE SURROUNDING THE TOOTH (76) OF A ROLL OF INK (42). THE INK ROLL (42) IS ALWAYS ADJUSTED BY A DRIVING ROLL (78) OF THE PAIR OF ROLLS (43). A GUIDE BEARING (41) DIRECTS THE TAPE TOWARD THE TEETH (76); THE INK (50) PASSES FROM THE MEASUREMENT MEANS (52) TO THE SURFACE SURROUNDING THE TEETH (76). THE TEETH (76) TRANSFER THE INK (50) TO THE TAPE (32) THAT IS COUPLED WITH THE ROLLS (43). THE MEASUREMENT MEASURES (52), THE INK ROLL (42) AND THE TAPE (32) ARE OF THE SAME LENGTH, SO THEY PROVIDE A UNIFORM RETINTING OF THE TAPE (32) DURING THE FEEDING OF THE SAME.

First claim

A non-transitory computer readable storage media having instructions stored thereon that, when executed by a processor of a monitoring and control system, cause the monitoring and control system to perform operations comprising:
receiving input indicating occupancy state of a user with regard to a designated area, or a plurality of areas therein or portions thereof;
receiving, from one or more of a plurality of sensing capable devices of, or in communication with, the monitoring and control system, input indicating a respective event involving the user entering or exiting the designated area, or an area therein or portion thereof, the sensing capable devices situated on or near the user, within the designated area, or in one or more of the plurality of areas therein, or portions thereof; and
transmitting a message to the user responsive to the respective event involving the user entering or exiting the designated area and the occupancy state of the user with regard to the designated area.

92. A METHOD OF SECURITY USING A LOCAL DATA NETWORK

KR20020032245A | INFRANET CO LTD

Bibliographic data

Publication date: 2002-05-03
Application date: 2000-10-26
Earliest priority date: 2000-10-26

Inventors: KIM HYEONG PIL

CPC classification: G06Q 50/10, G06Q 50/32
IPC classification: G06Q 50/00

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

The present invention relates to a method for providing a security service using a local information network. The present invention provides a method for connecting a plurality of monitoring devices to a local information network installed in a unit area, and storing and controlling information generated by the monitoring device. It is provided with a local server connected to the Internet and an Internet server through the means, and connected to the warning target that can process the information generated by the surveillance equipment and the local server, the warning information generated by the surveillance equipment and the local server and a large amount of By transmitting a moving picture or the like to the warning target, it is possible to quickly deliver the warning information to the warning target and to clearly determine the situation according to the viewing of the moving picture.

First claim

It is provided in a unit area and provided with a regional server set up to transmit, store, and control information, and connect a network cable capable of communicating information from the local server to a plurality of monitoring areas through a concentrator. A local network building step including an internet communication means capable of accessing the Internet to a local server;

The Internet server configured to be activated on the Internet and to control the local server and the local information network is connected to the local server through the Internet, and secured to transmit and receive information with other communication means while interworking with the Internet server. Internet server building step of configuring a server;

Installing a monitoring device in a monitoring area located in the unit area, connecting the monitoring device to a local server through the local information network, and connecting the monitoring device to the internet server through an internet network and a local server;

A warning object connection step of connecting a plurality of warning objects which are located in the unit area and can receive information of the monitoring equipment while communicating with a local server through the local information network to the local information network; And

And a service execution step of transmitting the information generated by the monitoring equipment to the warning target and the communication means according to the set values set in the local server and the internet server.

93. Location identification system

EP0402129A2 | DEVOY RALPH P

Bibliographic data

Publication date: 1990-12-12
Application date: 1990-06-07
Earliest priority date: 1989-06-09

Inventors: DEVOY RALPH P

CPC classification: G07C 9/28, G08B 3/1083
IPC classification: G07C 9/00, G08B 3/10

External links: Google Patents, Espacenet, EP Register, PatBase Express, PatBase, Orbit

Abstract

An identification system for identifying individuals within a facility and having a plurality of individual tags T to be carried on the person, each tag continuously emitting tag pulse rates unique to that tag at a predetermined frequency, at least one location detector unit placed at a monitor location, and having a signal processor unit 4, an antenna 1 to receive tag signals and a direction sensor 2 to generate a direction signal responsive to movement of an individual, so that the signal processor unit 4 will examine a tag signal only when a direction signal has been received from the direction sensor 2 and, a central processing unit 7 to communicate with each signal processing unit 4, and a method of detecting individuals in such a facility using such tags T and location detector units U.

First claim

An identification system comprising:
a plurality of individual tag means T adapted to be carried on the person, and adapted continuously to emit tag signals containing coded information at a predetermined frequency and unique pulse rate;
at least one location detector unit U adapted to be placed at a monitor location, said detector unit, in turn, comprising:
a signal processing unit 4 having microprocessor means;
antenna means 1 adapted to receive tag signals from said tags, and being connected to said signal processing unit 4;
direction sensor means 2 adapted to generate direction signals responsive to the movement of an individual adjacent to said detector unit U, and connected to said signal processing unit 4, whereby said unit will detect tag signals from said antenna means and said direction signals received from said direction sensor means, wherein said direction sensor means is adapted to be activated only when said individual is passing said detector unit U, and,
central processor means 7 adapted to communicate with said at least one detector unit U, and to receive from said detector unit movement signals indicating the movement of an individual from one monitor location to the other.

94. SECURITY DEVICE FOR DATA CENTER

JP2002133541A | Mitsubishi Electric Building Techno-Service Co Ltd

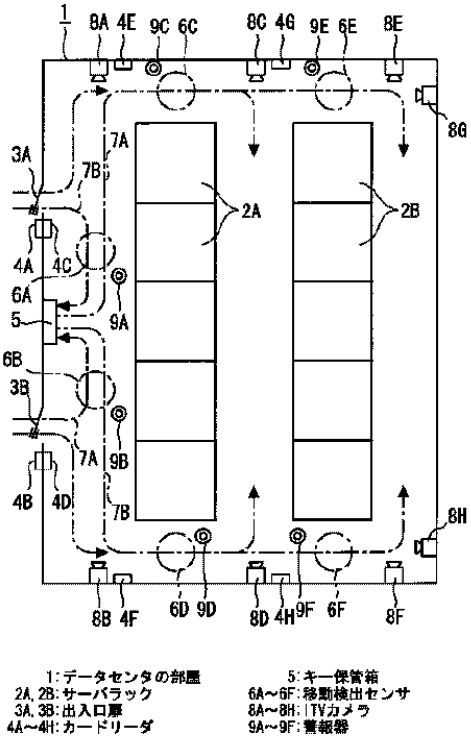
Bibliographic data

Publication date: 2002-05-10
Application date: 2000-10-20
Earliest priority date: 2000-10-20

Inventors: SUZUKI OSAMU

CPC classification:
IPC classification: E05B 49/00, H04N 7/18, G08B 13/196

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

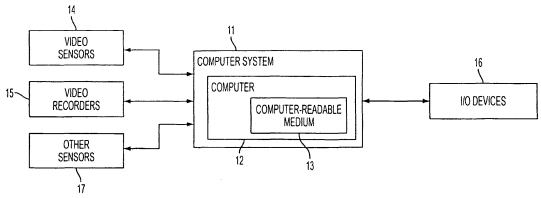
PROBLEM TO BE SOLVED: To reduce the chance of stealing information by an intruder in a room having a number of server racks set therein. SOLUTION: Movement detecting sensors 6A, 6C and 6E are arranged along a passage extending from an entrance door (e.g. 3A) to server racks 2A and 2B, and card readers (including a key storage box 5) 8A, 8C, 8E and 8G are set on this side thereof. When the sensor 6C detects a person, for example, normal time is decided when the discrimination result by a card operation in the card reader 4E is positive. However, abnormality is decided when the discrimination result is negative, an alarm 9C is rumbled, and the image of an ITV camera 8A is recorded as frame shots of 1-sec interval.

First claim

A sensor having a plurality of enclosed spaces each having a computer installed therein in a room, the sensor being arranged along a passage leading to the enclosed space, and detecting a person moving in the passage; A personal identification device for identifying the person by artificial operation provided correspondingly is installed, and when the sensor operates, the corresponding identification result of the individual identification device is determined to be positive and the normal state is determined. A security device for a data center, comprising: an information determination unit that determines whether a result of the determination is negative or that the personal identification device has not been operated and determines that an abnormality has occurred.

95. Video analytic rule detection system and method

US8564661B2 | Objectvideo Inc



Bibliographic data

Publication date: 2013-10-22
Application date: 2007-07-26
Earliest priority date: 2000-10-24

Inventors: LIPTON ALAN J, CLARK JOHN I W, ZHANG ZHONG, VENETIANER PETER L, STRAT THOMAS, ALLMEN MARK, SEVERSON WILLIAM, HAERING NIELS, CHOSAK ANDREW, FRAZIER MATTHEW, SFEKAS JAMES, HIRATA TASUKI

CPC classification: G07C 9/00, G08B 13/19608, G08B 13/19613, G08B 13/19652, G08B 13/19656, H04N 7/188
IPC classification: H04N 9/47

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A video surveillance system is set up, calibrated, tasked, and operated. The system extracts video primitives and extracts event occurrences from the video primitives using event discriminators. The extracted video primitives and event occurrences may be used to create and define additional video analytic rules. The system can undertake a response, such as an alarm, based on extracted event occurrences.

First claim

A method comprising:
detecting an object in a video;
detecting a plurality of attributes of the object wherein each attribute represents a corresponding characteristic of the object;
creating a user rule that defines an event;
identifying an event of the object by applying the user rule to at least some of the plurality of attributes of the object, wherein the plurality of attributes that are detected are independent of the identified event such that events may be defined that do not require analysis of all of the plurality of attributes,
wherein the step of identifying the event of the object identifies the event without reprocessing the video, and
wherein the event is not one of the plurality of attributes.

96. Home safety monitoring system

JP4662595B2 | Tempearl Industrial Co Ltd

Bibliographic data

Publication date: 2011-03-30
Application date: 1999-12-22
Earliest priority date: 1999-12-22

Inventors: 浜井 保徳, 鎌田 武

CPC classification:
IPC classification: H04M 11/04, H04Q 9/00, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

PROBLEM TO BE SOLVED: To provide a system for monitoring safety inside home, with which a convenience of system for an information demander is improved and an expensiveness caused by the expansion of system inside home and an increase in the cost of the operation can be suppressed by transmitting information between a sensor and a sensor information recognizing device through an internet. SOLUTION: This system for monitoring safety inside home is constructed by a method for disclosing information to the information demander by two-way communication between the sensor and a portable type information communication terminal through the internet by providing a local system composed of at least one sensor terminal installed at a prescribed place inside home for sensing target information and a domestic server for exchanging sensor data with the sensor terminal and controlling the collection/distribution of each of sensor data, the web server of an internet provider connected to this local system and the portable type information communication terminal with packaged internet browser connected with this web server and carried with the information demander.

First claim

A home safety monitoring system comprising the sensor terminal and a home server as a local system for disclosing information from a sensor terminal installed in the home to an information requester via the Internet,
A unique ID number for sensing information to be installed at a predetermined location in the home is given, and when a sensor information acquisition signal transmitted from a home server is received in the local system, One or more sensor terminals that are driven when it is determined whether the acquired signal is for its own control and are for its own sensor terminal, and sensor data is transmitted to and received from the sensor terminal at predetermined time intervals. A local system comprising a home server for collecting and delivering sensor data information, a web server of an internet provider connected to the local system, and a portable type equipped with an internet browser possessed by an information requester connected to the web server An information communication terminal,
The home server collects and distributes each sensor data information every predetermined time interval and stores it in the home server.
The home server uploads each sensor data information to the Internet provider's web server via the Internet to a predetermined data storage location provided for each information requester, and stores the data.
Desired from the individual sensor terminals when accessing the universal resource locator at a predetermined data storage location provided in advance for each information requester from a portable information communication terminal equipped with an Internet browser possessed by the information requester. While you can check the information of the sensor terminal ,
When a sensor information acquisition signal for acquiring desired sensor information from individual sensor terminals installed in a home via the Internet from a portable information communication terminal equipped with an Internet browser possessed by the information requester is transmitted, Send sensor information acquisition signal from the Internet provider's web server to the home server,
When the sensor terminal receives the sensor information acquisition signal, it determines whether the sensor information acquisition signal is for its own sensor terminal control, and if it is for its own sensor terminal control, operates according to the sensor information acquisition signal,
The home server acquires the sensor information and then stores the sensor information data in the home server, and stores the data in a predetermined data storage location provided for each information requester in the Internet

provider's web server. A home safety monitoring system , wherein information of the corresponding sensor is uploaded to a universal resource locator, and information obtained by a desired sensor is disclosed to an information requester.

97. Remote monitoring method and monitor control server

US7231654B2 | Japan Network Service Co Ltd

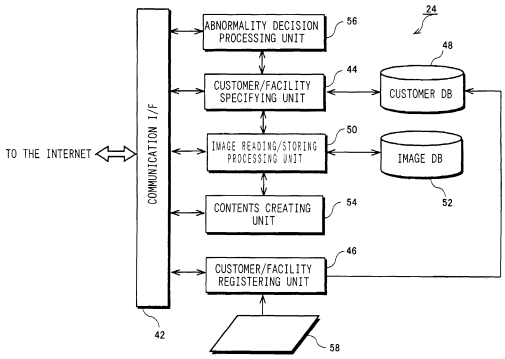
Bibliographic data

Publication date: 2007-06-12
Application date: 2002-12-19
Earliest priority date: 2000-06-30

Inventors: MURAI NOBUO

CPC classification: G08B 13/19656, G08B 13/19658, G08B 13/19684, G08B 13/19695, G08B 25/08, G08B 25/10
IPC classification: H04N 5/232, H04N 7/18, H04N 5/225, H04M 11/04, H04N 7/173, H04Q 9/00, G08B 25/00, G08B 25/08, G08B 25/10, G08B 15/00, G08B 25/04, G08B 13/196

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit



Abstract

A remote monitoring system which enables the owner and the custodian of a facility to recognize an intrusion from the outside and the owner himself to confirm the details of the intrusion, and which comprises a monitor device (11) for detecting abnormalities of facility and photographing them, and a control server (24) for receiving information from the monitor device (11) to transmit it to mobile terminals (28). The control server 24 (24) comprises an image DB (48) for storing received images in conjunction with the monitor device, a customer/facility specifying unit (44) in the monitor device for specifying mobile terminals carried by customers, and a message preparing unit for preparing messages to be notified to mobile terminals, thereby transmitting messages and contents to mobile terminal (28).

First claim

A remote monitoring method constructed to receive information from a monitor device disposed at a predetermined position in a facility and transmit predetermined data to an associated mobile terminal on the basis of the information from the monitor device, the method comprising:
a step of receiving via a network an image taken by the monitor device in response to abnormality detection made by the monitor device;
a step of storing in a database the received image in conjunction with the monitor device;
a step of forming as contents at least a predetermined portion of the received image by reading out the received image from the database, wherein the contents initially comprise an image of an approximately central portion of an image read out from the database;
a step of specifying a mobile terminal carried by a customer of the monitor device;
a step of preparing a message to be notified to the mobile terminal;
a step of transmitting to the mobile terminal the message to be notified and, as occasion demands, the contents;
a step of receiving a remote control instruction from the mobile terminal that has received the contents, wherein the remote control instruction includes at least instruction to pan a camera;
a step of specifying an area according to panning in the stored image in the database by shifting the area in the image, and forming contents made of an image of a portion corresponding to the specified area;
a step of transmitting the contents to the mobile terminal.

98. Behavior determination device, care system, care house, and program recording medium

JP3459202B2 | Panasonic Corp, Matsushita Electric Industrial Co Ltd

Bibliographic data

Publication date: 2003-10-20
Application date: 1999-07-23
Earliest priority date: 1999-07-23

Inventors: ▲よし▼池 信幸, 服部 章良, 森仲 克也, 井上 茂之, 田中 真司

CPC classification:
IPC classification: G08B 21/04, A61B 5/11, A61B 5/16, G08B 25/04

External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

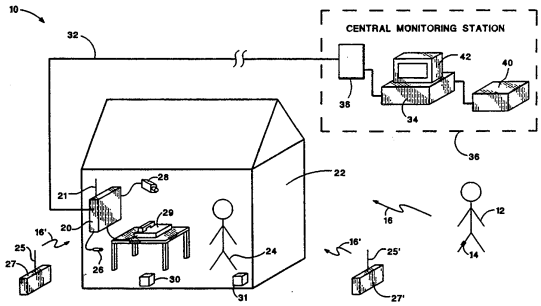
PROBLEM TO BE SOLVED: To provide an action deciding device for more exactly detecting the action of an object person. SOLUTION: This action discriminating device is provided with CCD cameras 1a and 1b for detecting the action of the object person, an infrared sensor 2, a bed sensor 3, an empty sensor 4, a tray sensor 5, a PIT 11, a transmitting/ receiving means 12, window opening/closing detecting means 6 and 7 for detecting the operation of equipment, a television power source ON/OFF detecting means 8, refrigerator door opening/closing detecting means 9, a recording means 23 recording the pattern of combination of the action of the object person and the operation of equipment, a deciding means 24 for deciding whether the combination of the detected action of the object person and the detected operation of equipment is practically matched with any pattern or not, an output means 25 for outputting the decided result of the deciding means 24, a warning transmitting means 26 for outputting a warning when the decided result is negative and a warning means 27.

First claim

A first detection means for detecting a predetermined target person's action, a second detection means for detecting a predetermined device operation, and a combination pattern of the target person's action and the device operation. One or a plurality of recording means, the action of the subject detected by the first detection means, the operation of the device detected by the second detection means, and the recording means Comparing the existing pattern, the determination means for determining whether or not the combination of the behavior of the subject and the operation of the device substantially matches any of the patterns, and the determination result determined by the determination means. An action determination device, comprising: an output unit for outputting.

99. Electronic system and method for monitoring compliance with a protective order

US5396227A | JurisMonitor Inc



Bibliographic data

Publication date:	1995-03-07
Application date:	1993-05-05
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External links:	Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

An electronic monitoring system monitors an individual for compliance with a protective order. When a violation is detected, the system automatically gathers evidence, independent of any that may be provided by the victim of the violation, to establish probable cause of such violation. The monitoring system includes a transmitter tag worn by the individual guilty of the violation (the "abuser") that transmits a unique identifying (ID) signal, either periodically or when triggered. A receiving/monitoring device (RMD), or equivalent, is carried by or positioned near the victim, e.g., in the victim's house and/or place of employment, for receiving the ID signal. A central monitoring computer is located at a central monitoring location that is in selective telecommunicative contact with the RMD. The computer maintains a response file that provides appropriate instructions to personnel or equipment at the central monitoring location or elsewhere in the event an abuser is detected by the victim's RMD, so that appropriate action can be taken in order to electronically gather evidence of the protective order violation, and to protect the victim. A portable electronic monitoring system may be carried or worn by a victim, thereby warming such victim if the abuser comes near the victim, regardless of where the victim may be.

First claim

An electronic monitoring system for monitoring compliance of a protective order, said protective order being imposed to restrain a first person from coming near a second person, said electronic monitoring system comprising:
a transmitter tag, said transmitter tag including transmitting means for periodically transmitting a first identification signal over a first range, and means for securely attaching said transmitter tag to said first person, whereby the first identification signal generated by the transmitter tag uniquely identifies said first person to whom the transmitter tag is attached;
a monitoring device located proximate said second person, said monitoring device including:
receiving means for receiving said first identification signal,
verification means for verifying that said first identification signal comprises the identification signal that is transmitted by the transmitter tag attached to said first person, and
means responsive to said verification means for promptly establishing a telecommunicative link with a central processing unit (CPU) located at a central monitoring location remote from said monitoring device, and for sending to said CPU a notifying signal through said established telecommunicative link indicating that said first identification signal has been received and verified by said monitoring device, whereby said CPU is put on notice that a distance of said first range is all that separates the transmitter tag, and hence the first person to whom the transmitter tag is attached, from said monitoring device, and hence that said first person has likely violated said protective order; and
a sensor positioned to sense the presence of an individual who has entered a zone protected by said protective order, said sensor being activated by said verification means, said sensor generating a sensor signal that is coupled to said monitoring device;
whereby a violation of said protective order by said first person may be confirmed through the receipt of said first identification signal and the generation of said sensor signal.

100. Video surveillance system

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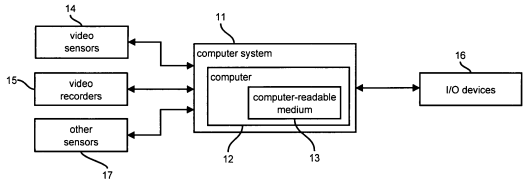

Bibliographic data

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External links: Google Patents, Espacenet, PatBase Express, PatBase, Orbit

Abstract

A video surveillance system is set up, calibrated, tasked, and operated. The system extracts video primitives and extracts event occurrences from the video primitives using event discriminators. The system can undertake a response, such as an alarm, based on extracted event occurrences.

First claim

A method of video surveillance comprising:
extracting one or more event occurrences based on at least one video or non-video primitive.