

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
16 February 2006 (16.02.2006)

PCT

(10) International Publication Number
WO 2006/017001 A2

- (51) International Patent Classification:
G04B 23/02 (2006.01) G04B 23/00 (2006.01)
G04C 21/00 (2006.01)
- (21) International Application Number:
PCT/US2005/022634
- (22) International Filing Date: 27 June 2005 (27.06.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/587,639 12 July 2004 (12.07.2004) US
11/165,965 24 June 2005 (24.06.2005) US
- (71) Applicant and
(72) Inventor: CUNNINGHAM, Matthew, B. [US/US]; 330
N. 2nd Avenue, Phoenix, AZ 85003 (US).
- (74) Agent: STONEMAN, Martin, L.; Stoneman Law Of-
fices, Ltd., 3113 North 3rd Street, Phoenix, AZ 85012-2601
(US).

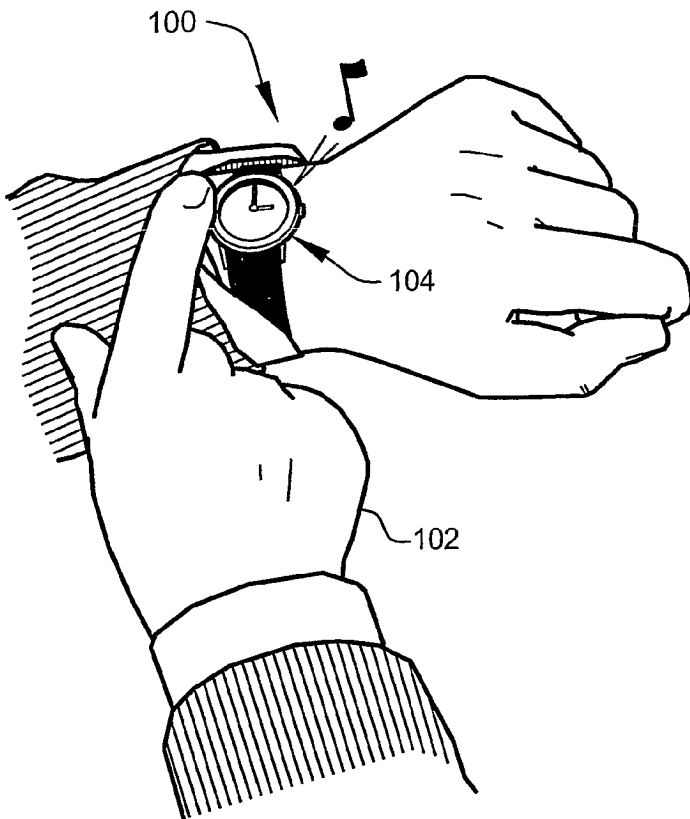
- (81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ,
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: MEMENTO TIMEPIECE SYSTEMS



(57) Abstract: A memento timepiece system adapted to assist an individual in the daily observance of at least one daily event memorable to the individual. Many individuals have within their experience, a person, life event, or other occasion that they wish to remember daily, weekly or monthly. The present invention comprises a timepiece, such as a wristwatch, having a factory preset alarm time to mark a daily act of remembrance. Business methods relating to the manufacture and distribution of the memento timepiece systems are also disclosed.

WO 2006/017001 A2



Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

MEMENTO TIMEPIECE SYSTEMS

BACKGROUND

This invention relates to memento timepiece systems. More particularly, this invention relates to memento timepiece systems adapted to assist in the daily observance of at least one event memorable to the individual.

History exists through perceptible links created by individuals or groups to a past person or event. Many individuals have, within their experience, a person, life event, or other occasion that they wish to remember daily, weekly or monthly. For example, remembering daily the 3 p.m. time of Christ's death or the 9/11 events of 2001 is important to many people. Such remembrances often include a moment of prayer, silence or other such honoring act. Often an individual or group will perform such remembrances at a specific time within the day.

It is clear, based on the above discussion, that a need exists for systems adapted to assist an individual or group of individuals in a daily act of remembrance by alerting the individual at at least one specific pre-set time within the day. Furthermore, a system that is easily carried with the individual and available to alert the individual would be useful.

OBJECTS AND FEATURES OF THE INVENTION

A primary object and feature of the present invention is to overcome the above-mentioned problems and fulfill the above-mentioned needs.

It is a further object and feature of the present invention to provide a timekeeper system to assist an individual in a daily act of remembrance by alerting the user at a specific pre-set time or times within the day, preferably with respect to a 24-hour timekeeper time-of-day.

It is another object and feature of the present invention to provide a system that is easily carried by the user as a personal item.

It is another object and feature of the present invention to provide a system that "pre-sets" the time of remembrance at the factory by the manufacturer.

It is another object and feature of the present invention to provide a system that provides the user with current time and the current date data.

It is another object and feature of the present invention to provide a system that comprises a wristwatch.

It is another object and feature of the present invention to provide a wearable timekeeper system having indicia thereon having a relation to the occasion of the remembrance to be acted upon.

It is another object and feature of the present invention to provide a system that comprises a wearable housing of a size and weight that permits the device to be supported by the body of the user.

It is another object and feature of the present invention to provide a system that receives wireless time data from a remote source.

It is another object and feature of the present invention to provide a method of producing custom memento timepieces.

It is an additional object and feature of the present invention to provide a method of providing memento timepieces, at a wholesale price, to assist non-profit groups in fund-raising efforts.

A further primary object and feature of the present invention is to provide such a system that is efficient, inexpensive, and handy. Other objects and features of this invention will become apparent with reference to the following descriptions.

SUMMARY OF THE INVENTION

In accordance with a preferred embodiment hereof, this invention provides memento timepiece systems, relating to at least one daily observance of at least one event memorable to at least one user, comprising: timekeeper means for keeping current time-of-day data; alerter means for providing at least one daily user alert as at least one memento of the at least one event memorable to the at least one user; and alert initiator means, coupled with such alerter means and coupled with such timekeeper means, for initiating the at least one daily user alert by such alerter means; wherein such alert initiator means further comprises factory presetter means for factory presetting, in a manner not user-modifiable, the initiating of the at least one daily user alert, as the at least one memento of the at least one event memorable to the at least one user, at at least one preset daily time-of-day according to such timekeeper means; and wherein the at least one preset daily time-of-day defines from one to about ten preset times of day, most preferably exactly one time of day.

Moreover, it provides such memento timepiece systems further comprising housing means for housing such timekeeper means, such alerter means, and such alert initiator means. Additionally, it provides such memento timepiece systems wherein such housing means comprises wearability means for assisting wearability of such housing means adjacent at least one portion of the body of the at least one user. Also, it provides such memento timepiece systems further comprising indicia means for visually depicting at least one memorable aspect of the event memorable to the at least one user. In addition, it provides such memento timepiece systems further comprising user operable suppressor means for user operable suppression of the at least one daily user alert. And, it provides such memento timepiece systems wherein such time keeper means comprises date keeper means for keeping current calendar date data.

In accordance with another preferred embodiment hereof, this invention provides memento timepiece systems, relating to at least one daily observance of at least one event memorable to at least one user, comprising: at least one timekeeper adapted to keep current time-of-day data; at least one alerter adapted to provide at least one daily user alert as at least one memento of the at least one event memorable to the at least one user; and at least one alert initiator, coupled with such at least one alerter and coupled with such at least one timekeeper, adapted to initiate the at least one daily user alert by such at least one alerter; wherein such at least one alert initiator further comprises at least one factory presetter adapted to factory preset, in a manner not user-modifiable, the initiating of the at least one daily user alert, as the at least one memento of the at least one event memorable to the at least one user, at at least one daily set time-of-day according to such at least one timekeeper; and wherein the at least one daily set time-of-day according to such at least one timekeeper comprises a number from one to about ten.

Further, it provides such memento timepiece systems further comprising indicia to visually depict at least one memorable aspect of the event memorable to the at least one user. Even further, it provides such memento timepiece systems wherein such indicia visually reminds the at least one user of at least one event of the Christian religion. Moreover, it provides such memento timepiece systems further comprising at least one user operable suppressor adapted to permit user operable suppression of the at least one user alert. Additionally, it provides such memento timepiece systems wherein such at least one timekeeper comprises at least one date keeper adapted to keep current calendar-date data. Also, it provides such memento timepiece systems wherein such at least one factory presetter

is factory presettable to initiate the at least one user alert at any time-of-day. In addition, it provides such memento timepiece systems wherein such at least one factory presetter is factory presettable to initiate the at least one user alert at about the three-o'clock hour. And, it provides such a memento timepiece systems further comprising at least one housing adapted to house such at least one timekeeper, such at least one alerter and such at least one alert initiator. Further, it provides such memento timepiece systems wherein such at least one housing comprises at least one wearable element to assist wearable support of such at least one housing adjacent at least one body portion of the at least one user.

Even further, it provides such memento timepiece systems wherein such at least one wearable element comprises at least one wristband assembly adapted to assist wearable support of such at least one housing adjacent to at least one arm portion of the at least one user. Moreover, it provides such memento timepiece systems wherein such at least one wearable element comprises at least one lanyard assembly adapted to assist wearable support of such at least one housing about at least one neck portion of the at least one user. Additionally, it provides such memento timepiece systems wherein such at least one wearable element comprises at least one attacher structured and arranged to permit attachability of such at least one housing to at least one article of clothing of the at least one user.

In accordance with another preferred embodiment and methods hereof, this invention provides business methods relating to the daily observance of at least one event memorable to a plurality of individuals, comprising the steps of: identifying such at least one event memorable to such plurality of individuals; providing for the manufacture of memento timepiece systems providing at least one daily reminder of such at least one event memorable to such plurality of individuals; operating at least one site offering to sell such memento timepiece systems; providing for acceptance of orders and payment from at least one of such plurality of individuals for such memento timepiece systems; and providing for shipping such ordered memento timepiece systems to such at least one of such plurality of individuals wherein each of such memento timepiece systems comprises at least one timekeeper adapted to keep current time-of-day data, at least one alerter adapted to provide at least one daily user alert as at least one memento of the at least one event memorable to the at least one user, and at least one alert initiator, coupled with such at least one alerter and coupled with such at least one timekeeper, adapted to initiate the at least one daily user alert by such at least one alerter, wherein such at least one alert initiator further comprises at least one factory presetter adapted to factory preset, in a manner not user-modifiable, the initiating of the at least one

daily user alert, as the at least one memento of the at least one event memorable to the at least one user, at at least one preset daily time-of-day, and wherein the at least one preset daily time-of-day defines from one to about ten preset times of day, most preferably exactly one time of day.

Also, it provides such business methods further comprising the steps of: accepting at least one custom order for such memento timepiece systems to provide at least one daily reminder of at least one event memorable to a specific individual; and providing for the manufacture of such custom memento timepiece systems. In addition, it provides such business methods wherein such at least one site comprises an Internet site operated in conjunction with at least one website server.

In accordance with another preferred embodiment and methods hereof, this invention provides business methods relating to the daily observance of at least one event memorable to members of at least one non-profit group, comprising the steps of: identifying such at least one event memorable to such members of the at least one non-profit group; providing for the manufacture of memento timepiece systems providing at least one daily reminder of such at least one event memorable to such members of the at least one non-profit group; operating at least one site offering to sell such memento timepiece systems to such members of the at least one non-profit group; providing for acceptance of orders and payment from at least one of such members for such memento timepiece systems, at a wholesale rate, essentially to assist such at least one non-profit group to carry out at least one revenue producing resale of such memento timepiece systems; and providing for shipping such ordered memento timepiece systems to such members of such at least one non-profit group wherein each of such memento timepiece systems comprises at least one timekeeper adapted to keep current time-of-day data, at least one alerter adapted to provide at least one daily user alert as at least one memento of the at least one event memorable to the at least one user, and at least one alert initiator, coupled with such at least one alerter and coupled with such at least one timekeeper, adapted to initiate the at least one daily user alert by such at least one alerter, wherein such at least one alert initiator further comprises at least one factory presetter adapted to factory preset, in a manner not user-modifiable, the initiating of the at least one daily user alert, as the at least one memento of the at least one event memorable to the at least one user, at at least one daily set time-of-day according to such at least one timekeeper, and wherein the at least one daily set time-of-day according to such at least one timekeeper comprises a number from one to about ten.

And, it provides such a business methods wherein such at least one site comprises an Internet site operated in conjunction with at least one website server. Furthermore, this invention provides each and every novel feature, element, combination, step and/or method disclosed or suggested by this provisional patent application.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 shows a perspective view illustrating a memento timepiece system, alerting a user at a pre-set time, according to a preferred embodiment of the present invention.

FIG. 2 shows a partial front view of the memento timepiece system according to the preferred embodiment of FIG. 1.

FIG. 3 shows a perspective view, illustrating another embodiment of the memento timepiece system, according to the preferred embodiment of FIG. 1.

FIG. 4 shows a block diagram, generally illustrating the internal component arrangements of the memento timepiece system, according to the preferred embodiment of FIG. 1.

FIG. 5 shows a flowchart diagram, generally illustrating the novel operational aspects of the memento timepiece system, according to the preferred embodiments of the present invention.

FIG. 6 shows a partial front view of the memento timepiece system according to another preferred embodiment of the present invention.

FIG. 7 shows a partial front view of the memento timepiece system according to another preferred embodiment of the present invention.

FIG. 8 shows a front view of the memento timepiece system according to another preferred embodiment of the present invention.

FIG. 9 shows a perspective view, illustrating the memento timepiece system as a desk clock, according to another preferred embodiment of the present invention.

FIG. 10 shows a perspective view, illustrating the memento timepiece system as a portable communication device, according to another preferred embodiment of the present invention.

FIG. 11 shows a diagram, illustrating a memento timepiece system adapted to receive time and frequency data from a remote broadcast site, according to another preferred embodiment of the present invention.

FIG. 12 shows a front view of the memento timepiece system, in a wearable configuration, solely adapted to provide daily remembrance alerts, according to another

preferred embodiment of the present invention.

FIG. 13 shows a front view of a custom memento timepiece system according to another preferred embodiment of the present invention.

FIG. 14 shows a flowchart diagram, generally illustrating a method of producing and distributing memento timepiece systems, according to the preferred embodiments of FIG. 1 through FIG 12.

FIG. 15 shows a flowchart diagram, generally illustrating a method of producing and distributing custom memento timepiece systems, according to the preferred embodiment of FIG. 13.

FIG. 16 shows a diagram, generally illustrating a business method related to producing and distributing memento timepiece systems, according to the preferred embodiments of the present invention.

DETAILED DESCRIPTION OF THE BEST MODES AND PREFERRED EMBODIMENTS OF THE INVENTION

The following definitions are provided to facilitate understanding of certain terms used frequently herein. The explanation is provided as a convenience and is not limitative of the invention.

In the present disclosure, the term “memento” is defined as one (or more) apparatus or structure established to remind an individual or group of individuals of a person or event.

The term “timepiece” is defined as a device (such as a clock or watch) to measure or show progress of time.

The terms “alert” or “alert signal” are each defined as a means (such as a sound, visible indicator, or perceptible movement) for conveying notice. Further, these terms shall include alerting means having both essentially instantaneous and extended durations (as in a grouping of audible tones lasting one minute).

In the accompanying drawings, some structures and devices may be shown in block diagram form in order to provide an understanding of the interrelationship between components and the flow of information and control throughout the depicted preferred embodiment of the present invention. Upon reading the applicant’s specification, it will be apparent to those skilled in the art from the teachings herein that the invention may be practiced with a variety of different specific components provided to serve the generalized block diagram description.

FIG. 1 shows a perspective view illustrating memento timepiece system **100**, alerting

user **102** to a pre-set time of remembrance, according to a preferred embodiment of the present invention. Memento timepiece system **100** preferably comprises a physical arrangement adapted to permit user **102** to carry memento timepiece system **100** adjacent to the body as a personal object, as shown. Memento timepiece system **100** most preferably comprises a wearable wristwatch **104**, as shown.

Preferably, memento timepiece system **100** comprises at least one alerting component adapted to produce an alerting signal such as the audible chime shown. Preferably, for user convenience, the times at which memento timepiece system **100** generates the alerting signal is pre-set at the factory and, in general, is not adjustable by the user. By the term “factory presetting” (and the like) when used in this specification is meant that the action occurs during at least one manufacturing and/or assembly process. Preferably, memento timepiece system **100** is factory programmed to provide an alerting signal at at least one specific time during a day, most preferably at one daily time. For example, memento timepiece system **100** may be factory programmed to generate a one-minute alert signal at 3:00 p.m. each day to assist user **102** in remembering the time of Christ’s death. Preferably, to accommodate a range of memorial events, memento timepiece system **100** is factory-programmable to provide between one alert signal and about ten alert signals within a single 24-hour period (at least embodying herein at least one preset daily time-of-day; and further at least embodying herein wherein the at least one preset daily time-of-day defines from one to about ten preset times of day), preferably exactly one time of day (at least embodying herein at least one factory presetter is factory presettable to initiate exactly one daily user alert at about the three-o’clock PM hour). Preferably, memento timepiece system **100** provides user **102** with at least one means for stopping or suspending the alert signal when an alert is not desired (such as during a meeting, movie, period of sleep, etc.).

FIG. 2 shows a partial front view of memento timepiece system **100** according to the preferred embodiment of FIG. 1. Preferably, memento timepiece system **100** generally comprises many of the external features of a conventional watch including; outer case **106** (at least embodying herein housing means), adjustment crown **108**, transparent crystal **110**, dial **112**, handset **114** (hour, minute and second), lugs **116**, and band **118**, as shown. Preferably, adjustment crown **108** is adapted to permit time adjustment of the internal timekeeping movement. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, given such issues as user preference, timepiece configuration, etc., using the adjustment crown to perform additional

functions, such as winding, silencing the alert signal, adjusting the current date, etc., may suffice.

Preferably, memento timepiece system **100** comprises memento indicia **120**, as shown. Preferably, memento indicia **120** provide a visual connection to the person or event to be remembered thereby assisting user **102** in the act of remembrance (at least embodying herein indicia means for visually depicting at least one memorable aspect of the event memorable to the at least one user). Preferably, the outward appearance of memento indicia **120** are selected based on a visual association with the person or event to be remembered. If memento timepiece system **100** is used to assist user **102** in a religious observation, memento indicia **120** may preferably comprise a traditional symbol or common phrase drawn from the religion's traditions and practices. For example, the memento indicia **120** of FIG. 2 comprises Christian cross **122**, used as a symbolic representation of the crucifixion and resurrection of Jesus Christ. Preferably, one or more memento indicia **120** are applied to a visible external portion of memento timepiece system **100**, such as the face of dial **112**, as shown. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as user preference, physical shape, intended use, etc., other indicia locations, such as the outer case, bezel, crystal, band, back, etc., may suffice.

FIG. 3 shows a perspective view, illustrating a variation of memento timepiece system **100**, according to the preferred embodiments of FIG. 1. Preferably, memento timepiece system **100** is adaptable to provide an analog display (with hands and dial as illustrated in FIG. 1), or electronic display **124** with time data displayed in digits, as shown, or a combination of both. Electronic display **124** may preferably comprise an arrangement of Light Emitting Diodes (LEDs) or Liquid Crystal Display (LCD), as shown. Electronic display **124** is especially applicable to timepiece arrangements used in sport-type watches, as shown.

Preferably, memento timepiece system **100** may be adaptable to include the display of current date **126**, as shown (at least embodying herein wherein such timekeeper means comprises date keeper means for keeping current calendar date data). Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, such as user preference, intended use, etc., the inclusion of other display functions, such as stopwatch operations, analog/digital display combinations, pulse rate monitoring, GPS positioning, temperature indication, numerical data messaging,

etc., may suffice.

As in the prior figures, memento timepiece system **100** preferably comprises memento indicia **120**, as shown. Preferably, memento timepiece system **100** of FIG. 3 comprises external controls **128** (that may preferably include adjustment crown **108** of FIG. 1) to permit the user to set the current time and date along with other secondary features, if any, of the watch, as shown. It is again noted that, for user convenience, the timing of the alerting signal is factory pre-set and, in general, is only adjustable by the user to the extent of its dependence on the user settable current time and/or date (at least embodying herein wherein such alert initiator means further comprises factory presetter means for factory presetting, in a manner not user-modifiable, the initiating of the at least one daily user alert).

Preferably, band **118** (at least embodying herein wherein such at least one wearable element comprises at least one wristband assembly adapted to assist wearable support of such at least one housing adjacent to at least one arm portion of the at least one user) comprises clasp **130** adapted to permit memento timepiece system **100** to be easily secured and removed from the wrist of the user. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, such as user preference, intended use, etc., the use of other fastening configurations, such as elastic, hook and loop, etc., may suffice.

FIG. 4 shows a block diagram, generally illustrating the internal component arrangements of memento timepiece system **100**, according to the preferred embodiments of FIG. 1 through FIG 3. Preferably, memento timepiece system **100** comprises timekeeping movement **132** (at least embodying herein timekeeper means for keeping current time-of-day data), protectively housed within outer case **106**. Preferably, timekeeping movement **132** is adapted to maintain current time and date data, initiate the factory preset alarm signals and control other secondary functions of the system, if any, as applicable. Timekeeping movement **132** preferably comprises a quartz movement having an integrated circuit controller **134**, coupled to quartz resonator **138**, as shown.

Preferably, power cell **136** is adapted to provide electrical power to the timing circuit and is preferably electrically coupled to integrated circuit controller **134** and power bus **160**, as shown. Preferably, power cell **136** comprises a silver oxide type cell delivering about 1.5 volts. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, such as user preference, advances in technology, intended use, etc., the use of other cell types, such as longer-lasting 3 volt lithium

batteries, solar cells, etc., may suffice.

Preferably, integrated circuit controller **134** comprises a programmable, board-mounted Complementary Metal Oxide Semiconductor Integrated Circuit (CMOS IC) device. Depending on the specifics of the application, the CMOS device may comprise an analog, digital, or mixed signal semiconductor design. Integrated circuit controller **134** may comprise at least one internal logic processor that may comprise well-known logic structures such as registers for arithmetic operation, address control registers, stack pointers, instruction registers, instruction decoders, etc. Preferably, the internal logic processor is electrically coupled with peripheral circuits by means of internal address and data buses. Preferably, integrated circuit controller **134** further comprises factory installed software programming adapted to operate the internal logic processor. Preferably, data memory, more preferably comprising Random Access Memory (RAM), is used by integrated circuit controller **134** to hold the current time and timer data.

Preferably, integrated circuit controller **134** (at least embodying herein alert initiator means, coupled with such alerter means and coupled with such timekeeper means, for initiating the at least one daily user alert by such alerter means) comprises at least one commercially available watch circuit adapted for use in battery operated wrist watches, preferably using a 32 kHz quartz resonator as the timing element, preferably modified to provide the alerting signals of the present invention, as described below.

Preferably, quartz resonator **138** comprises a tuning-fork-shaped quartz crystal (silicon dioxide) that is laser-trimmed or precision lapped to vibrate at about 32,768 cycles per second. Standard quality resonators of this type are generally warranted to have a long-term accuracy of about 6 parts per million at 31 degrees Celsius, that is, memento timepiece system **100** is expected to gain or lose less than one-half second per day while operating at the body temperature of user **102**. Preferably, quartz resonator **138** is electrically coupled to an oscillator driver circuit, within integrated circuit controller **134**, and to power bus **160**, as shown. Preferably, the oscillator driver circuit is adapted to maintain quartz resonator **138** at its resonant frequency of 32.768 KHz.

Preferably, an accessibly located frequency regulating trimmer **140** is used within the timing circuit to permit small frequency adjustments to quartz resonator **138**, typically within the limits of about plus-or-minus-two seconds per day. In addition, integrated circuit controller **134** preferably comprises an internal divider circuit adapted to divide down the quartz frequency from 32.768 KHz to a usable one pulse per second.

Analog display embodiments of memento timepiece system **100** preferably comprise mechanical sub-assembly **150**, preferably containing a stepping motor **142**, gear train **144** and analog display **152**, as shown. Preferably, a stepping motor driver circuit, within integrated circuit controller **134**, is adapted to deliver timed voltage pulses (preferably one per second) to drive stepping motor **142**, as shown. Preferably, stepping motor **142** is mechanically coupled to gear train **144** that operates analog display **152**, as shown.

Preferably, user controllable functions of integrated circuit controller **134** are accessible using external controls **128** (see also FIG. 3), preferably comprising a bank of normally open momentary-contact switches, as shown. Preferably, external controls **128** are electrically coupled to integrated circuit controller **134** and power bus **160**, as shown. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, such as user preference, advances in technology, intended use, etc., other methods of user access to system function, such as via the adjustment crown, may suffice.

Preferably, integrated circuit controller **134** comprises first LCD data path **162** comprising segment output pins for a multiplex LCD display (electronic display **124**), as shown. Additionally, integrated circuit controller **134** comprises second LCD output path **164** preferably comprising common output pins for the multiplex LCD display (electronic display **124**), as shown.

Preferably, timekeeping movement **132** comprises at least one audible alerting component **166**, as shown (at least embodying herein alerter means for providing at least one daily user alert as at least one memento of the at least one event memorable to the at least one user). Preferably, audible alerting component **166** comprises an electronic chime or piezo buzzer, as shown. Preferably, audible alerting component **166** is controlled by audible alert output pin **168** on integrated circuit controller **134** (programmable to factory-pre-set at least one time of initiation, preferably exactly one time of initiation, of audible alerting component **166**), as shown. Preferably, audible alert output pin **168** is electrically coupled to switching transistor **170** preferably adapted to control the delivery of power between audible alerting component **166**, power cell **136** and power bus **160**, as shown.

In a similar preferred arrangement, embodiments of timekeeping movement **132** may, under appropriate circumstances, comprise at least one visual alerting component **172**, as shown (at least embodying herein alerter means for providing at least one daily user alert as at least one memento of the at least one event memorable to the at least one user). Preferably,

visual alerting component **172** comprises an LED or similar lamp, as shown. Preferably, visual alerting component **172** is controlled by visual alert output pin **174** on integrated circuit controller **134**, as shown. Preferably, visual alert output pin **174** is electrically coupled to switching transistor **176** preferably adapted to control the delivery of power between visual alerting component **172**, power cell **136** and power bus **160**, as shown. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as circuit design and component selection, other electronic configurations, such as driving the alerting components directly from the IC controller, may suffice. Furthermore, upon reading the teachings of this specification, those of ordinary skill in the art will now appreciate that, under appropriate circumstances, such as user preference, advances in technology, intended use, etc., the use of other alerting devices, such as vibrators, digital text display, etc., may suffice.

Preferably, a user controllable switch **180** (at least embodying herein user operable suppressor means for user operable suppression of the at least one daily user alert) is provided between the power bus **160** and the alerting devices to permit the user to suspend or suppress the operation of audible alerting component **166** (at least embodying herein wherein said at least one alerter comprises at least one audio signal) and/or visual alerting component **172**, (at least embodying herein wherein said at least one alerter comprises at least one visual signal) as shown.

Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as user preference, intended use, etc., other system controls for integrated circuit controller, such as reset pins, and/or test pins, may suffice. Furthermore, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as user preference, advances in technology, intended use, etc., other electronic control arrangements, such as single-chip devices, movements entirely mechanically operated, systems comprising radio controlled setting functions, etc., may suffice.

Watch movements suitable for modification and use with the present invention are available through a number of commercial sources. For example, a single-chip CMOS LSI model JT9692A-AS manufactured by Toshiba Electronics (www.Toshiba.com) is modifiable for use with the present invention.

With continued reference to FIG. 1 through FIG. 4, FIG. 5 is a flowchart diagram, generally illustrating the novel operational aspects of memento timepiece system **100**,

according to the preferred embodiments of the present invention. Preferred operation of memento timepiece system **100** begins with the setting of the current time (for example by user **102**) as depicted in step **190**. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering specifics of the embodiment, intended use, etc., other steps of operating the memento timepiece system, such as the setting of other system functions, such as, setting the current date, setting the time zone, setting the secondary alarms, etc, may suffice. Preferably, on completion of step **190**, timekeeping movement **132** begins continuous operation to keep current time data, as depicted in step **192**. Preferably, as described in FIG. 4 above, timekeeping movement **132** is adapted to output the current time data to one or more displays (analog and/or digital), as depicted in adjacent step **194**.

Preferably, integrated circuit controller **134** of timekeeping movement **132** comprises an internal logic processor structured and arranged to receive and process the current time data, as depicted in steps **196** and **198**. Preferably, integrated circuit controller **134** comprises a program that directs integrated circuit controller **134** to receive current time data from the timekeeping circuit as depicted in step **196**. Preferably, as depicted in step **198**, the current time data is compared to factory-preset alert signal times, preferably stored in program memory. If the current time data equals at least one of the factory-preset alert times, the program preferably executes step **200**. If the current time data does not equal one of the factory-preset alert times, the program preferably returns to step **196**, and directs integrated circuit controller **134** to receive the next current time data sample for comparison.

On executing step **200**, the program preferably initiates the user alert and executes step **202**, as shown. Next, as depicted in step **202**, the program preferably checks for an extended alert signal routine. For example, the program may comprise a preset alert signal routine having a start chime followed by an end chime at the end of one minute. If the factory-preset program comprises an extended alert signal routine, the program preferably executes step **204**, as shown. If the factory-preset program does not comprise an extended alert signal routine, the program preferably returns to step **196**, as shown.

On reaching step **204**, the software program of integrated circuit controller **134** again preferably samples time data from the timekeeping circuit to initiate a preset wait period before repeating the user alert signal, as shown. On executing the second user alert signal, the program preferably performs a check, using new current time data, to determine if the factory-preset alert period is complete, as depicted in step **206**. If the factory-preset alert

period is complete, the program preferably returns to step **196**. If the factory-preset alert period is not complete, the program again executes step **204**, as shown. Preferably, step **206** is repeated until the condition of step **206** is true and the program preferably returns the system to step **196**, as shown. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering such issues as user preference, timepiece configuration, intended use, etc., the inclusion of other operational steps may suffice. For example, an additional programmed decision step, to determine if the user has electronically enabled or suppressed the factory-preset alert signal, may be included between step **198** and step **200**. If the additional decision step were included, the program would preferably return to step **196** on determining that the user had suppressed the alert signal or proceed to execute step **200** on determining that the user had enabled the alert signal.

FIG. 6 through FIG. 13 depict various embodiments of the present invention to illustrate the adaptability of the memento timepiece system. FIG. 6 shows a partial front view of memento timepiece system **300** according to another preferred embodiment of the present invention. Preferably, the memento timepiece system is adaptable to provide a wide range of wearable options. Preferably, memento timepiece system **300** comprises a pendant-style timepiece, adaptable to be worn about the neck of the user. Preferably, memento timepiece system **300** comprises an outer case **106** with ring assembly **302**, adapted to be suspended from lanyard **304** (a cord or chain), as shown (at least embodying herein wherein such housing means comprises wearability means for assisting wearability of such housing means adjacent at least one body portion of the at least one user).

FIG. 7 shows a partial front view of memento timepiece system **325** according to another preferred embodiment of the present invention. In the embodiment of FIG. 7, a second representative example of a remembrance event is given. Preferably, memento timepiece system **325** has been adapted to periodically assist the user in remembering specific aspects of the 9-11 events. Preferably, memento timepiece system **325** comprises memento indicia **120**, in the present example memorializing members of the New York Fire Department, by depicting the F.D.N.Y. Maltese Cross, on the face of dial **112**, as shown. Additionally, memento timepiece system **325** preferably comprises at least one audible alert, factory preset to periodically signal a time of user remembrance, preferably 9:11 a.m. or 9:11 p.m. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, such as user preference, chosen

memorial event, intended use, etc., other memento indicia, such as photographs, dimensional carvings, words, phrases, illuminations, etc., may suffice.

FIG. 8 shows a front view of memento timepiece system **330** according to another preferred embodiment of the present invention. The embodiment of FIG. 8 further illustrates preferred variations of the present invention. Preferably, memento timepiece system **330** comprises an outer case **106** having pin **332**, as shown. Preferably, pin **332** is adapted to permit memento timepiece system **330** to be removably attached, by pinning through an article of clothing worn by the user (at least embodying herein wherein such housing means comprises wearability means for assisting wearability of such housing means adjacent at least one body portion of the at least one user).

FIG. 9 shows a perspective view, illustrating memento timepiece system **335**, according to another preferred embodiment of the present invention. Preferably, memento timepiece system **335** comprises a digital desk clock, as shown. FIG. 9 further illustrates the adaptability of the present invention to a wide range of personal items.

FIG. 10 shows a perspective view, illustrating a memento timepiece system **340** comprising a portable communication device, according to another preferred embodiment of the present invention. Preferably, memento timepiece system **340** (at least embodying herein wherein said memento timepiece system is housed in at least one portable communication device) is adapted to comprise a portable communication device, having an internal timekeeping function, such as the mobile phone shown. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, such as user preference, advances in technology, intended use, etc., other portable communication devices, such as text pagers, Personal Digital Assistants (PDAs), etc., may suffice.

FIG. 11 shows a diagram, illustrating automatic time setting functions of a radio-controlled memento timepiece system **350** adapted to receive wireless time and frequency data **354** from remote broadcast site **352**, according to another preferred embodiment of the present invention.

Remote broadcast site **352** preferably comprises a National Institute of Standards and Technology (NIST) radiobroadcast station, as shown. Presently, NIST has established a network of radio stations to continuously broadcast time and frequency information. The broadcast information includes time announcements, standard time intervals, standard frequencies, UT1 time corrections and a Binary Code Decimal (BCD) time code. Currently,

the time is kept to within less than one microsecond of Coordinated Universal Time (UTC) at the transmitter site. For most users in the United States, the accuracy of received time data is within about 10 milliseconds (1/100 of a second). Currently, the 50 kW signal from the NIST radio station WWVB located in Fort Collins, Colorado is the preferred synchronization source for memento timepiece system **350** in the United States.

Preferably, memento timepiece system **350** comprises a programmable quartz timekeeping movement similar to the movement described in FIG. 4. In addition, memento timepiece system **350** preferably comprises an antenna, a radio receiver and an internal program to receive and decode the radio signal received from remote broadcast site **352**, as shown. Preferably, the programmable quartz timekeeping movement functions to time the alert signal functions of the present invention and to advance the time display during intervals in which no valid remote time data is being received by the system. Preferably, once memento timepiece system **350** has received and decoded a signal from remote broadcast site **352**, timekeeping movement **132** is adapted to synchronize the internal time data of memento timepiece system **350** with the time data received from the radio signal of remote broadcast site **352** (at least embodying herein wherein such at least one timekeeper is structured and arranged to receive wirelessly time-of-day corrections, wherein more accurate time-of-day may be kept by such at least one timekeeper). Radio controlled watch movements suitable for modification and use with the present invention are available through a number of commercial sources. For example, Junghans (junghansusa.com) produces a line of wristwatches having radio-controlled automatic setting features.

FIG. 12 is a front view of memento timepiece system **400**, in a wearable configuration, solely adapted to provide daily remembrance alerts, according to another preferred embodiment of the present invention. In the preferred embodiment of FIG. 12, memento timepiece system **400** comprises a personal item, such as a pin, broche or paperweight, as shown. The outer housing **106** of memento timepiece system **400** may preferably comprise memento indicia **120** in the form of a symbol or shape, as shown. Preferably, housing **106** contains a programmable quartz movement with a radio-controlled automatic time setting feature as described in FIG. 11. Preferably, memento timepiece system **400** is factory programmed to provide the user with an alert signal at the prescribed remembrance times. Because memento timepiece system **400** is automatically set, the system requires no external time displays, as shown. Preferably, memento timepiece system **400** (embodying herein wherein said memento timepiece systems comprises no external time

displays) functions solely as an alert device to assist the user in daily acts of remembrance.

FIG. 13 is a front view of custom memento timepiece system **450** according to another preferred embodiment of the present invention. Preferably, custom memento timepiece system **450** comprises wristwatch **452** having user specific remembrance features, as shown. For illustrative purposes, the depicted embodiment has been uniquely customized to assist a specific user in the remembrance of a wedding, as shown. In the present example, custom memento timepiece system **450** is depicted with a user supplied momento indicia **120** (a photographic image), user selected phrase indicia **456** and user selected date indicia **458**. Preferably, custom memento timepiece system **450** may further comprise an audible alert, factory preset to the user's specification. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, considering user preference, remembrance subject matter, memento timepiece configuration, etc., the use of other remembrance aides, such as visual illuminations, carvings, animations, colors, audible tones, etc., may suffice.

FIG. 14 is a diagram, generally illustrating a business method related to producing and distributing memento timepiece systems, according to the preferred embodiments of FIG. 1 through FIG 12. The preferred method of manufacturing, distributing and selling the memento timepiece systems is presented in the following steps.

In a first preferred step, a designer or design team **502**, associated with supplier **504**, identifies a needs within group **506** relating to assisting members of group **506** in acts of remembrance. Preferably, the need will be associated with a person or event **508** memorable to group **506**, as shown. Preferably, design team **502** selects imagery relating to the person or event to produce appropriate memento indicia **120**. Preferably, design team **502** may work with members of the group to identify memento indicia **120** having the greatest value and meaning to the group members. Preferably, the design team **502** selects an appropriate alert signal and signal time, as shown. Preferably, a final design is selected, and specifications **511** for the design are generated, as shown. Preferably, supplier **504** identifies manufacturer **510** and negotiates contract **509** to batch produce the memento timepiece system based on specifications **511**, as shown. Preferably, specifications **511** will include physical dimensions, materials requirements, memento indicia, packaging materials, operational parameters, user instructions, etc. for producing the system. Preferably, manufacturer **510** produces the memento timepiece systems, based on the specification requirements. Preferably, manufacturer **510** flashes or otherwise downloads all alert signal programming to

the memento timepiece systems and ships the finished units to product distribution site **520**, as shown. Upon reading the teachings of this specification, those of ordinary skill in the art will now understand that, under appropriate circumstances, such as supplier preference, methods of programming, supply logistics, etc., programming of the memento timepiece systems by the supplier prior to customer delivery may suffice.

Preferably, supplier **504** operates one or more Internet website servers **514** offering the memento timepiece systems for sale, as shown. Preferably, supplier **504** provides for acceptance of orders and payment from individuals of group **506** for purchase of the memento timepiece systems by means of the website. In a final preferred step, supplier **504** provides for the shipping of ordered memento timepiece systems to purchasing individuals of group **506**, from product distribution site **520**, thus completing the transaction.

Thus, it is seen that the above steps embody and provide herein a business method relating to the daily observance of at least one event memorable to a plurality of individuals, comprising the steps of: identifying such at least one event memorable to such plurality of individuals; providing for the manufacture of at least one memento timepiece system providing at least one daily reminder of such at least one event memorable to such plurality of individuals; operating an Internet website server offering to sell such at least one memento timepiece system; providing for acceptance of orders and payment from at least one of such plurality of individuals for such memento timepiece system; and providing for shipping such ordered memento timepiece system to such at least one of such plurality of individuals.

FIG. 15 shows a diagram, generally illustrating a business method related to producing and distributing custom memento timepiece systems, according to the preferred embodiments of FIG. 13. In a second preferred business method, supplier **504** preferably operates one or more Internet website servers **514** offering to provide custom memento timepiece systems for production and sale, as shown. Preferably, Internet website server **514** comprises a website adapted for the acceptance of orders and purchase transactions, from individuals **550**, for custom designed memento timepiece systems. Preferably, the website is structured to permit individuals **550** to select and specify specific designs for producing a single unit or limited quantities of the custom memento timepiece system. For example, individual **550** preferably accesses Internet website server **514** and selects, from customization menu **552**, a timepiece to be customized, memento indicia **120** and a daily alert signal time. Individual **550** preferably completes the order by providing payment and shipping information. In addition, the website is preferably adapted to permit individual **550**

to upload a photograph or other image file for use as memento indicia **120** (as illustrated in FIG. 13). Preferably, supplier **504** arranges for production of the custom memento timepiece system, using the customization data provided by individual **550**. In a final preferred step, supplier **504** provides for the shipping of the custom memento timepiece system to individual **550**, thus completing the transaction.

Thus, it is seen that the above steps embody and provide herein a business method relating to the daily observance of at least one event memorable to a plurality of individuals, comprising the steps of: accepting at least one custom order for at least one memento timepiece system to provide at least one daily reminder of at least one event memorable to a specific individual; and providing for the manufacture of such at least one custom memento timepiece system.

FIG. 16 shows a diagram, generally illustrating a business method related to producing and distributing memento timepiece systems, according to the preferred embodiments of the present invention. The preferred method of manufacturing, distributing and selling the memento timepiece systems is presented in the following steps.

Preferably, supplier **504** operates one or more Internet website servers **514** offering the memento timepiece systems for sale to non-profit group **560**, as shown. Preferably, supplier **504** provides for acceptance of orders and payment from non-profit group **560** for purchase of the memento timepiece systems, at a wholesale rate, essentially to assist non-profit group **560** to carry out a revenue-producing resale of the memento timepiece systems. In a final preferred step, supplier **504** provides for the shipping of ordered memento timepiece systems to non-profit group **560**, thus completing the purchase transaction. Non-profit group **560** may then resale the memento timepiece systems to produce fundraising profits. In the above-described method, non-profit group **560** may preferably select the memento timepiece systems from the suppliers standard stock or may order a quantity of custom memento timepiece systems.

Thus, it is seen that the above steps embody and provide herein a business method relating to the daily observance of at least one event memorable to members of at least one non-profit group, comprising the steps of: identifying such at least one event memorable to such members of the at least one non-profit group; providing for the manufacture of at least one memento timepiece system providing at least one daily reminder of such at least one event memorable to such members of the at least one non-profit group; operating an Internet website server offering to sell such at least one memento timepiece system to such members

individuals of the at least one non-profit group; providing for acceptance of orders and payment from at least one of such members for such at least one memento timepiece system, at a wholesale rate, essentially to assist such at least one non-profit group to carry out at least one revenue producing resale of such at least one memento timepiece system ; and providing for shipping such ordered timepiece system to such members of such at least one non-profit group.

Although applicant has described applicant's preferred embodiments of this invention, it will be understood that the broadest scope of this invention includes such modifications as diverse shapes and sizes and materials. Such scope is limited only by the below claims as read in connection with the above specification.

Further, many other advantages of applicant's invention will be apparent to those skilled in the art from the above descriptions and the below claims.

What is claimed is:

- 1) Memento timepiece systems, relating to at least one daily observance of at least one event memorable to at least one user, comprising:
 - a) at least one timekeeper adapted to keep current time-of-day data;
 - b) at least one alerter adapted to provide at least one daily user alert as at least one memento of the at least one event memorable to the at least one user; and
 - c) at least one alert initiator, coupled with said at least one alerter and coupled with said at least one timekeeper, adapted to initiate the at least one daily user alert by said at least one alerter;
 - d) wherein said at least one alert initiator further comprises at least one factory presetter adapted to factory preset, in a manner not user-modifiable, the initiating of the at least one daily user alert, as the at least one memento of the at least one event memorable to the at least one user, at at least one preset daily (24-hour timekeeper day) time-of-day according to said at least one timekeeper; and
 - e) wherein the at least one preset daily time-of-day defines from one to about ten preset times of day.
- 2) The memento timepiece systems according to Claim 1 further comprising indicia to visually depict at least one memorable aspect of the event memorable to the at least one user.
- 3) The memento timepiece systems according to Claim 2 wherein said indicia visually reminds the at least one user of at least one event of the Christian religion.
- 4) The memento timepiece systems according to Claim 1 further comprising at least one user operable suppressor adapted to permit user operable suppression of the at least one user alert.
- 5) The memento timepiece systems according to Claim 1 wherein said at least one timekeeper comprises at least one date keeper adapted to keep current calendar-date data.
- 6) The memento timepiece systems according to Claim 1 wherein said at least one factory presetter is factory presettable to initiate the at least one user alert at any time-of-day of a 24-hour timekeeper day.

- 7) The memento timepiece systems according to Claim 1 wherein said at least one factory presetter is factory presettable to initiate exactly one daily user alert at about the three-o'clock PM hour.
- 8) The memento timepiece systems according to Claim 1 further comprising at least one housing adapted to house said at least one timekeeper, said at least one alerter and said at least one alert initiator.
- 9) The memento timepiece systems according to Claim 8 wherein said at least one housing comprises at least one portable communication device.
- 10) The memento timepiece systems according to Claim 9 wherein said at least one housing comprises at least one wearable element to assist wearable support of said at least one housing adjacent at least one body portion of the at least one user.
- 11) The memento timepiece systems according to Claim 9 wherein said at least one wearable element comprises at least one lanyard assembly adapted to assist wearable support of said at least one housing about at least one neck portion of the at least one user.
- 12) The memento timepiece systems according to Claim 9 wherein said at least one wearable element comprises at least one attacher structured and arranged to permit attachability of said at least one housing to at least one article of clothing of the at least one use.

- 13) The memento timepiece systems according to Claim 10 further comprising:
 - a) at least one indicia to visually depict at least one memorable aspect of the event memorable to the at least one user; and
 - b) at least one user operable suppressor adapted to permit user operable suppression of the at least one user alert;
 - c) wherein said at least one wearable element comprises at least one wristband assembly adapted to assist wearable support of said at least one housing adjacent to at least one arm portion of the at least one user;
 - d) wherein said indicia visually reminds the at least one user of at least one event of the Christian religion;
 - e) wherein said at least one timekeeper comprises at least one date keeper adapted to keep current calendar-date data;
 - f) wherein said at least one factory presetter is factory presettable to initiate exactly one daily user alert at about the three-o'clock PM hour;
 - g) wherein said at least one alerter comprises at least one audio signal.
- 14) The memento timepiece systems according to Claim 13 wherein said at least one alerter further comprises at least one visual signal.
- 15) The memento timepiece systems according to Claim 1 wherein said at least one timekeeper is structured and arranged to receive wirelessly time-of-day corrections, wherein more accurate time-of-day may be kept by said at least one timekeeper.
- 16) The memento timepiece systems according to Claim 1 wherein said at least one alerter comprises at least one audio signal.
- 17) The memento timepiece systems according to Claim 1 wherein said at least one alerter comprises at least one visual signal.
- 18) The memento timepiece systems according to Claim 1 wherein said memento timepiece systems comprise no external time displays.

- 19) Memento timepiece systems, relating to at least one daily observance of at least one event memorable to at least one user, comprising:
- a) timekeeper means for keeping current time-of-day data;
 - b) alerter means for providing at least one daily user alert as at least one memento of the at least one event memorable to the at least one user; and
 - c) alert initiator means, coupled with said alerter means and coupled with said timekeeper means, for initiating the at least one daily user alert by said alerter means;
 - d) wherein said alert initiator means further comprises factory presetter means for factory presetting, in a manner not user-modifiable, the initiating of the at least one daily user alert, as the at least one memento of the at least one event memorable to the at least one user, at at least one preset daily time-of-day according to said timekeeper means; and
 - e) wherein the at least one preset daily time-of-day defines from one to about ten preset times of day.

- 20) Business methods, relating to the daily observance of at least one event memorable to a plurality of individuals, comprising the steps of:
- a) identifying such at least one event memorable to such plurality of individuals;
 - b) providing for the manufacture of memento timepiece systems providing at least one daily reminder of such at least one event memorable to such plurality of individuals;
 - c) offering to sell such memento timepiece systems;
 - d) providing for acceptance of orders and payment from at least one of such plurality of individuals for such memento timepiece systems; and
 - e) providing for shipping such ordered memento timepiece systems to such at least one of such plurality of individuals;
 - f) wherein each of such memento timepiece systems comprises
 - i) at least one timekeeper adapted to keep current time-of-day data,
 - ii) at least one alerter adapted to provide at least one daily user alert as at least one memento of the at least one event memorable to the at least one user, and
 - iii) at least one alert initiator, coupled with such at least one alerter and coupled with such at least one timekeeper, adapted to initiate the at least one daily user alert by such at least one alerter,
 - iv) wherein such at least one alert initiator further comprises at least one factory presetter adapted to factory preset, in a manner not user-modifiable, the initiating of the at least one daily user alert, as the at least one memento of the at least one event memorable to the at least one user, at at least one preset daily time-of-day according to such at least one timekeeper, and
 - v) wherein the at least one preset daily time-of-day defines from one to about ten preset times of day.
- 21) The business methods according to Claim 20 further comprising the steps of:
- a) accepting at least one custom order for such memento timepiece systems to provide at least one daily reminder of at least one event memorable to a specific individual; and
 - b) providing for the manufacture of such custom memento timepiece systems.

- 22) The business methods according to Claim 20 wherein such step of offering is performed through at least one site comprising an Internet site operated in conjunction with at least one website server.

- 23) Business methods relating to the daily observance of at least one event memorable to members of at least one non-profit group, comprising the steps of:
- a) identifying such at least one event memorable to such members of the at least one non-profit group;
 - b) providing for the manufacture of memento timepiece systems providing at least one daily reminder of such at least one event memorable to such members of the at least one non-profit group;
 - c) offering to sell such memento timepiece systems to such members of the at least one non-profit group;
 - d) providing for acceptance of orders and payment from at least one of such members for such memento timepiece systems, at a wholesale rate, essentially to assist such at least one non-profit group to carry out at least one revenue producing resale of such memento timepiece systems; and
 - e) providing for shipping such ordered memento timepiece systems to such members of such at least one non-profit group;
 - f) wherein each of such memento timepiece systems comprises
 - i) at least one timekeeper adapted to keep current time-of-day data,
 - ii) at least one alerter adapted to provide at least one daily user alert as at least one memento of the at least one event memorable to the at least one user, and
 - iii) at least one alert initiator, coupled with such at least one alerter and coupled with such at least one timekeeper, adapted to initiate the at least one daily user alert by such at least one alerter,
 - iv) wherein such at least one alert initiator further comprises at least one factory presetter adapted to factory preset, in a manner not user-modifiable, the initiating of the at least one daily user alert, as the at least one memento of the at least one event memorable to the at least one user, at at least one preset daily time-of-day according to such at least one timekeeper, and
 - v) wherein the at least one preset daily time-of-day defines from one to about ten preset times of day.

- 24) The business methods according to Claim 23 wherein such step of offe performed through at least one site comprising an Internet site operated with at least one website server.

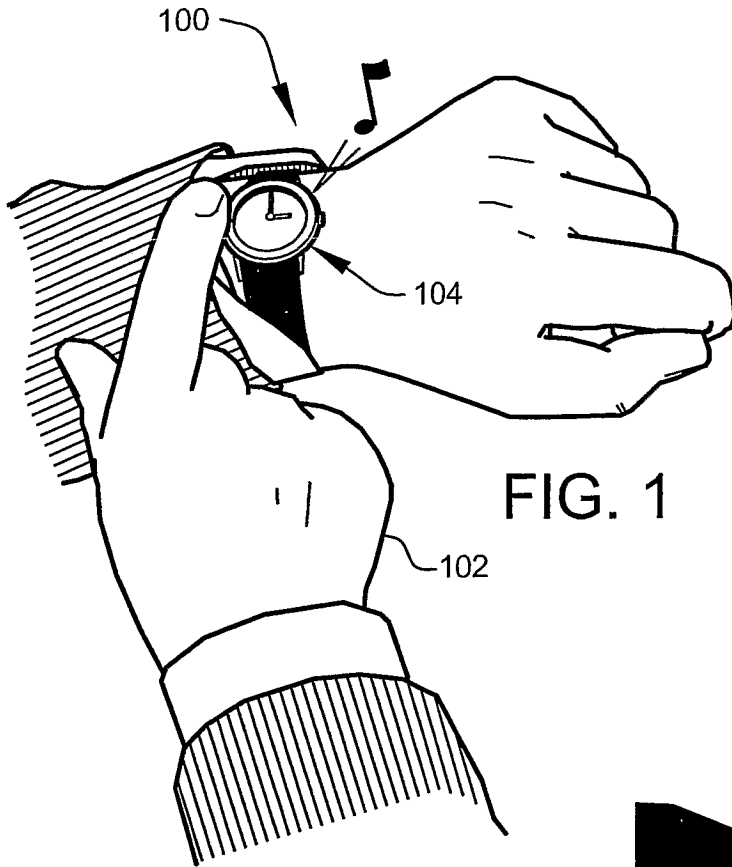


FIG. 1

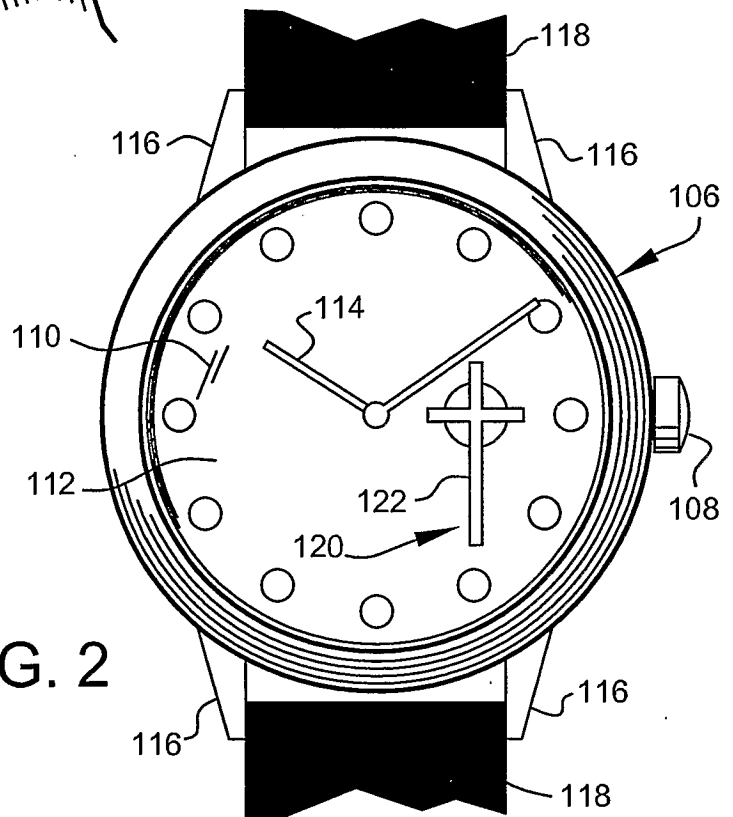


FIG. 2

2/8

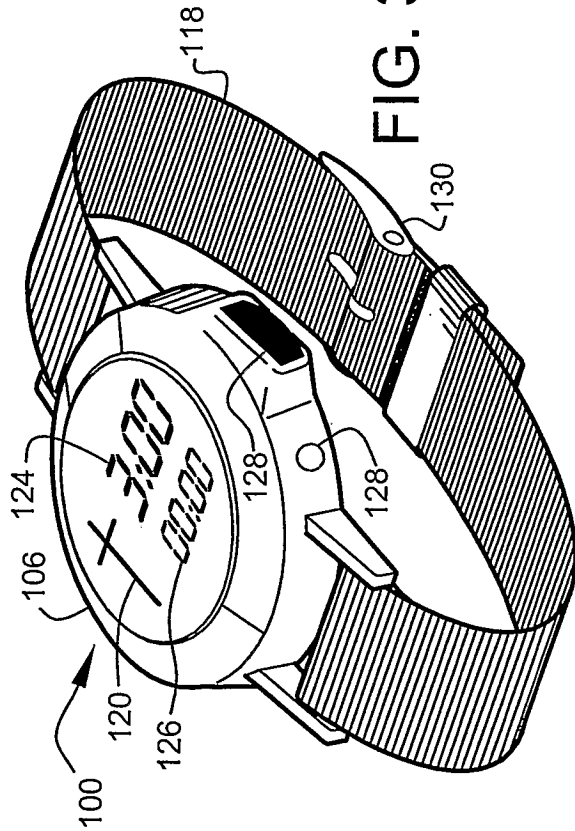


FIG. 3

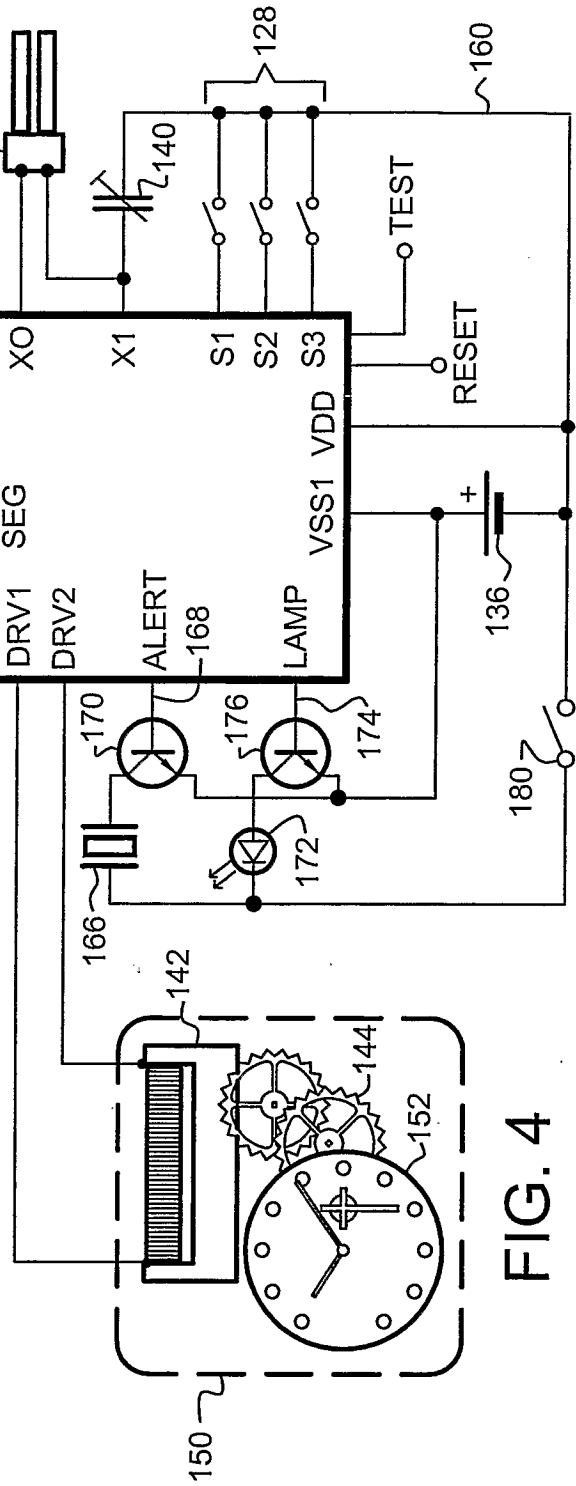


FIG. 4

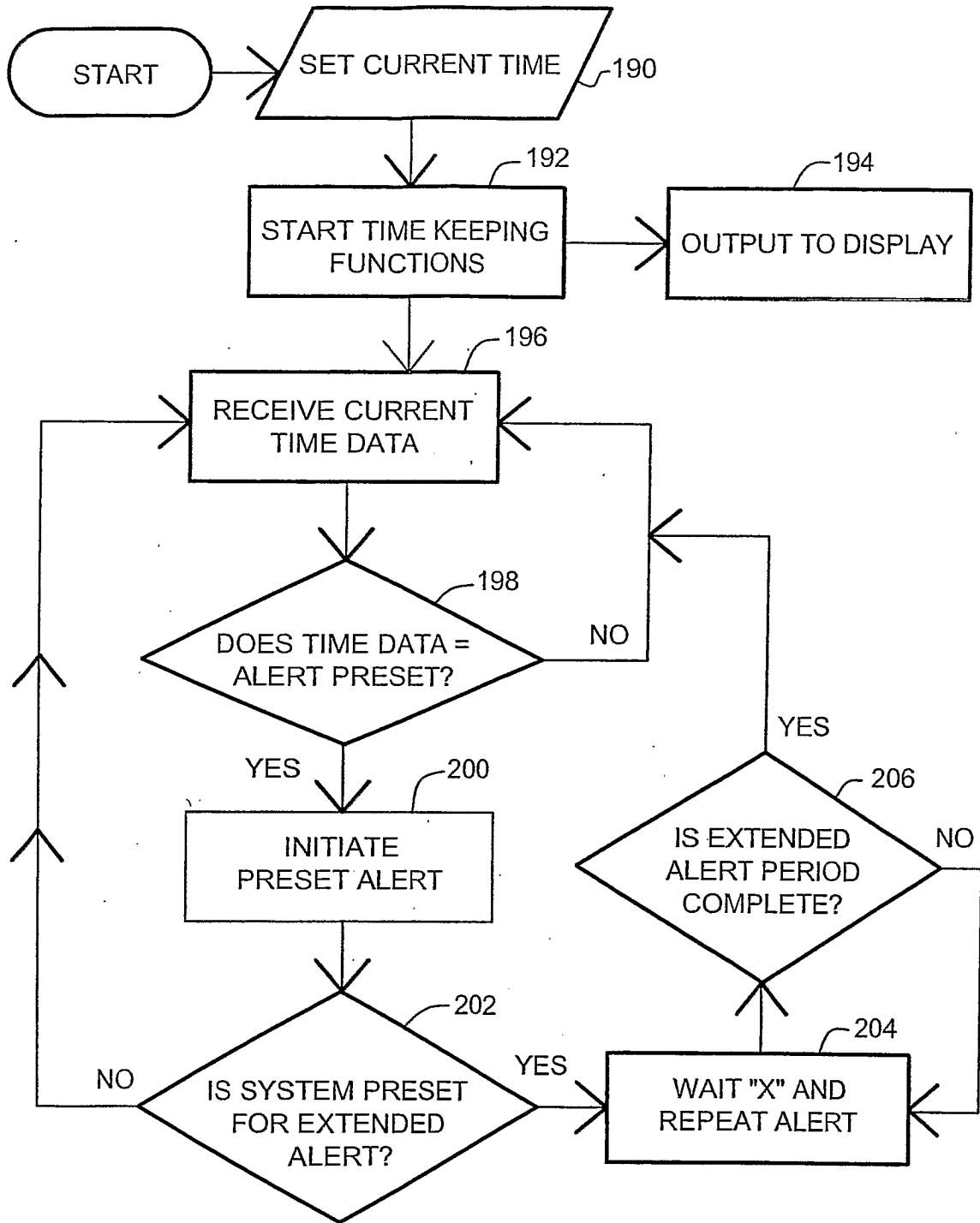


FIG. 5

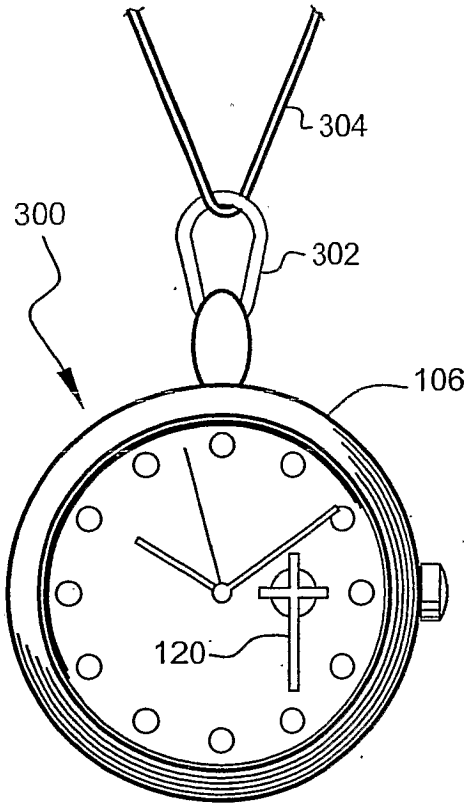


FIG. 6

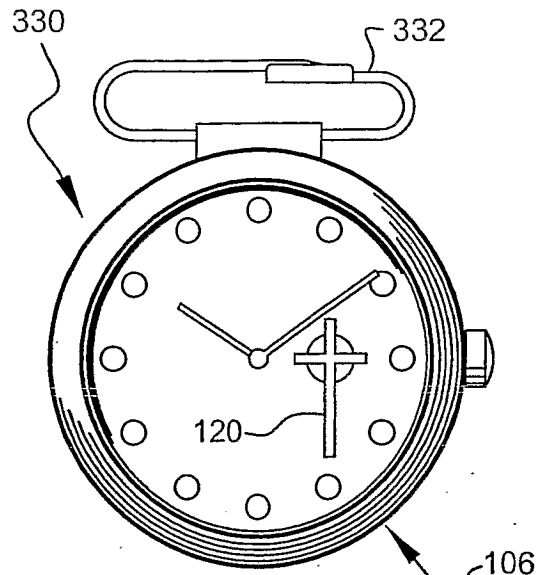


FIG. 8

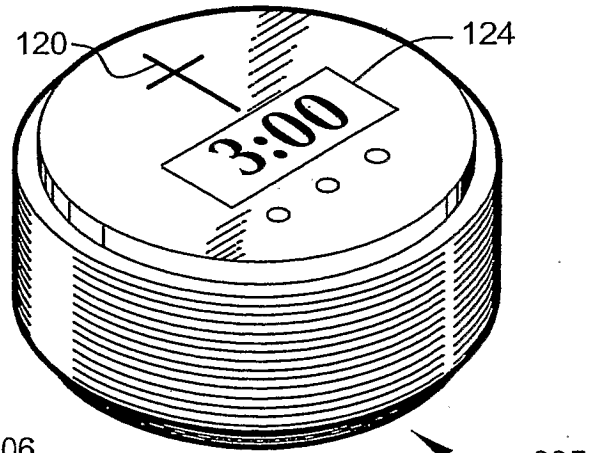


FIG. 9

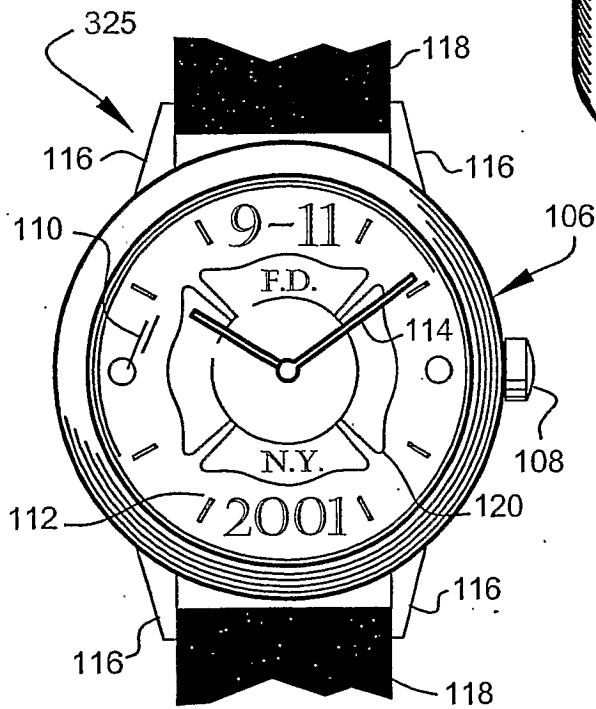


FIG. 7

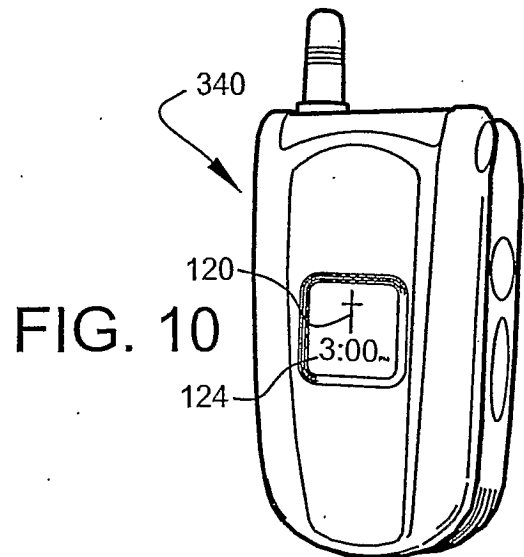


FIG. 10

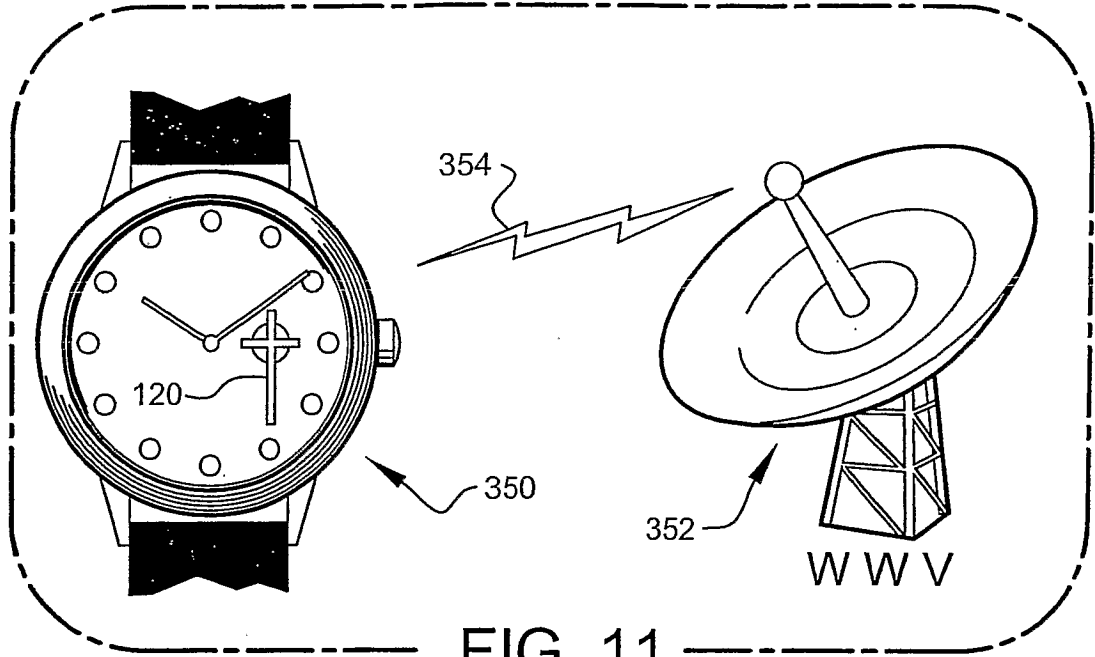


FIG. 11

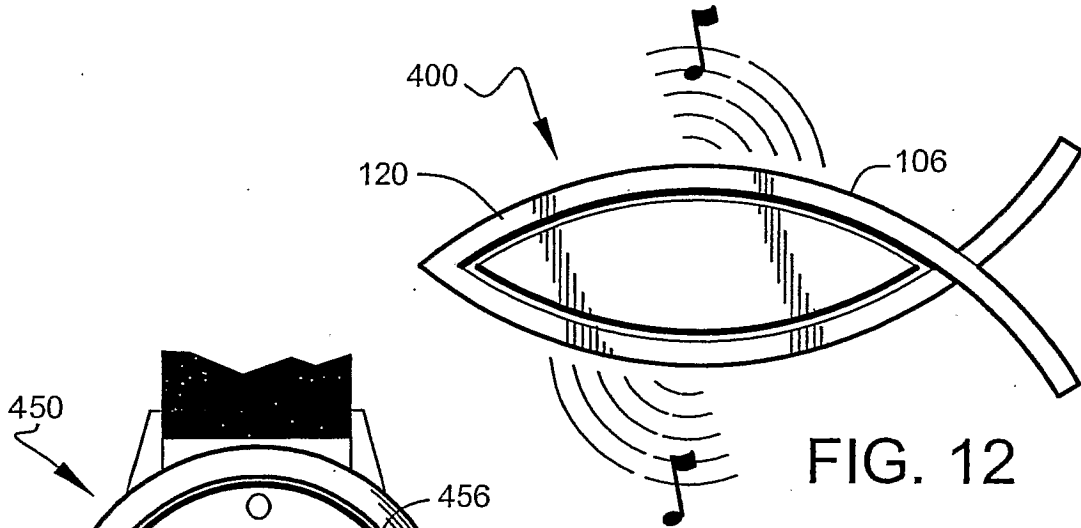


FIG. 12

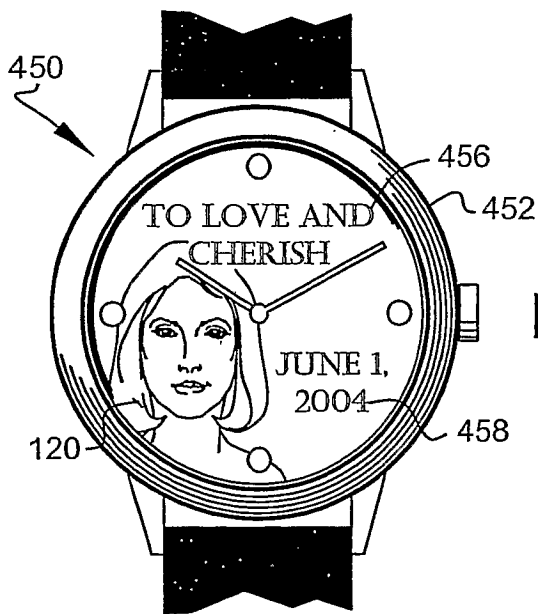


FIG. 13

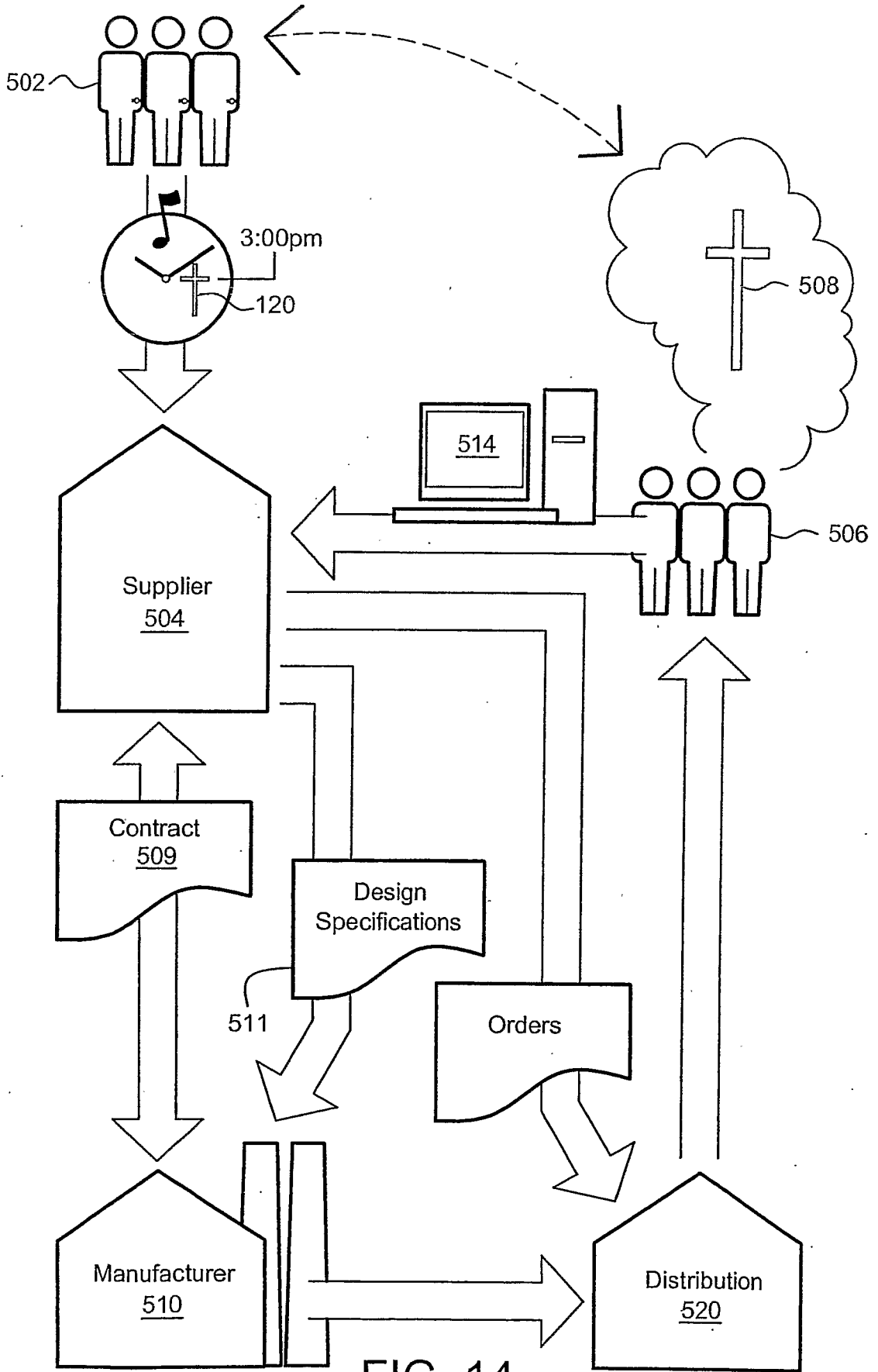
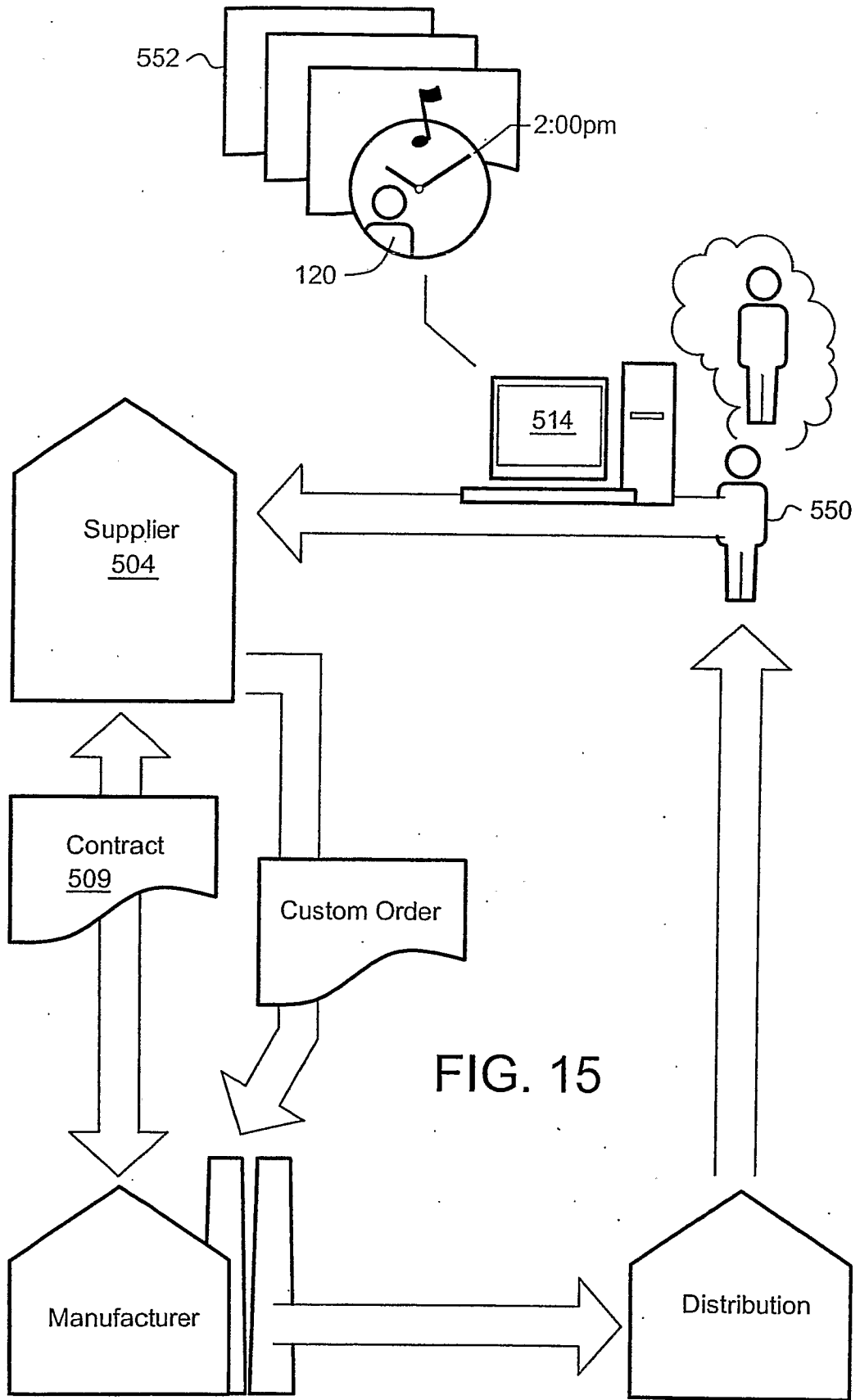
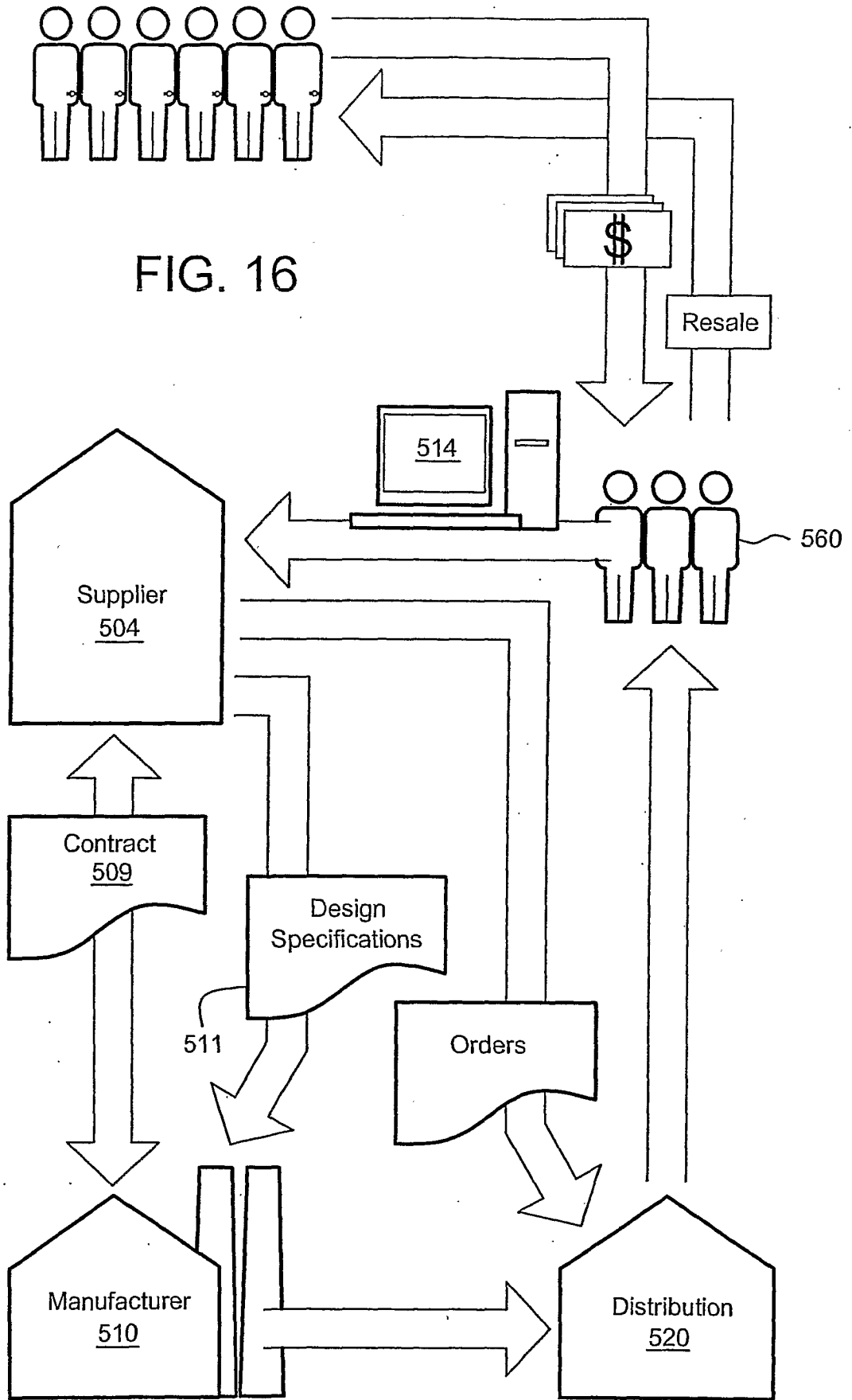


FIG. 14





(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
16 February 2006 (16.02.2006)

PCT

(10) International Publication Number
WO 2006/017001 A3

- (51) International Patent Classification:
G04B 23/02 (2006.01)
- (21) International Application Number:
PCT/US2005/022634
- (22) International Filing Date: 27 June 2005 (27.06.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/587,639 12 July 2004 (12.07.2004) US
11/165,965 24 June 2005 (24.06.2005) US
- (71) Applicant and
- (72) Inventor: CUNNINGHAM, Matthew, B. [US/US]; 330 N. 2nd Avenue, Phoenix, AZ 85003 (US).
- (74) Agent: STONEMAN, Martin, L.; Stoneman Law Offices, Ltd., 3113 North 3rd Street, Phoenix, AZ 85012-2601 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

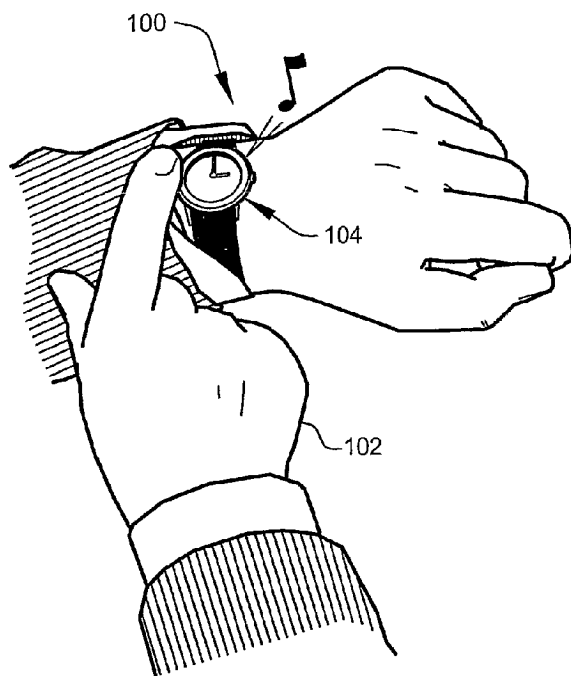
— of inventorship (Rule 4.17(iv))

Published:

— with international search report

[Continued on next page]

(54) Title: MEMENTO TIMEPIECE SYSTEMS



(57) Abstract: A memento timepiece system adapted to assist an individual in the daily observance of at least one daily event memorable to the individual. Many individuals have within their experience, a person, life event, or other occasion that they wish to remember daily, weekly or monthly. The present invention comprises a timepiece, such as a wristwatch, having a factory preset alarm time to mark a daily act of remembrance. Business methods relating to the manufacture and distribution of the memento timepiece systems are also disclosed.



WO 2006/017001 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

27 December 2007

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/22634

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **G04B 23/02(2006.01)**

 USPC: 368/72
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 368/72,73

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1520790 (Wier) 30 December 1924 (30.12.1924) Whole Document.	1 and 19
X, P --- Y, P	US 20050007884 (Lorenzato) 13 Jan. 2005 (13.1.2005), Whole document, emphasis on paragraphs 77-78, 85-86, 104, and 107 and figure 1.	1-4, 6-10, 12, and 15-19 ----- 5, 11, and 13-14
Y	US 20030002391 (Biggs) 2 Jan. 2003 (2.1.2003), paragraphs 29 and 78.	5 and 13-14
Y	US 6164814 (Crow) 26 Dec. 2000 (26.12.2000), Figure 1	11
X --- Y	US 6069848 (McDonald et al) 30 May 2000 (30.5.2000), Whole Document	1-2, 19 ----- 3-18

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 12 October 2007 (12.10.2007)	Date of mailing of the international search report 23 OCT 2007
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer Sean Kayes <i>Lynia Seel For</i> Telephone No. (571) 273-2800

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/22634

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: 20-24
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 20-24 recite limitations directed toward processing of information only in the abstract. There is no tangible result.
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
 2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.
 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
- Remark on Protest**
- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
 - The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
 - No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US05/22634**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 20050026120 (Delvecchio et al) 3 Feb. 2005 (3.2.2005), Whole Document	1-19
Y	US 4601584 (DeWolf et al) 22 July 1986 (22.7.1986), Whole Document.	1-19