LINGERIE WITH ELECTRONIC CLOSURES
UNDONE BY CELLULAR PHONE OR AN
ELECTRONIC GAME

Inventors: John Griffits, Tallai (AU); Yvonne
Griffits, TALLAI (AU)

Related U.S. Application Data
Continuation-in-part of application No. 10/518,761,
filed on Dec. 21, 2004, filed as application No. PCT/
AU03/00769 on Jun. 21, 2003.

Foreign Application Priority Data
Jun. 21, 2002 (AU) ......................... PS 3093

ABSTRACT
Electrically operable garment closures for use with one at
least items of clothing. The closures may be made to open in
response to a plurality of signals including information
related a game of chance, a card game or a board game. The
closures may also respond to a mobile phone arranged for
digitally imaging the item of clothing. The phone is prefer-
ably arranged to process the imaged information for display-
ing the relative location of the closures on a touch responsive
display.
Music & Video Parties & Dance Games of Chance

Input to MEGCM 245 246

Input to PCM 248

Figure 1
Figure 8
LINGERIE WITH ELECTRONIC CLOSURES UNDONE BY CELLULAR PHONE OR AN ELECTRONIC GAME

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a continuation in part of co-pending application Ser. No. 10/518,761 that is the US National Entry of PCT AU03/00769, titled: “Garments that automatically disrobe in response to remote control means.” filed Jun. 21, 2003, that claims priority from Australian Provisional Application PS 3093 filed Jun. 21, 2002.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH AND DEVELOPMENT

[0002] Not Applicable.

THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT

[0003] Not applicable.

INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC

[0004] Not applicable.

BACKGROUND OF THE INVENTION

[0005] (1) Field of the Invention
[0006] Electrically operable garment closures usable alone or in a shared environment that are arranged to open in response to one or more signals, for example voice control. A plurality of novel signals for controlling the closures are disclosed. Opening of a closure is typically a response to the computer processing of information. A preferred objective is to provide for the automated removal/undoing of part at least of an item of clothing worn by a person in response to a) one or more commands issued by the person or another person (e.g. their partner) and or b) an output from a control device. Novel electrically operable closures are disclosed. The use of a decorative and or an illuminable device with an electrically operable closure is disclosed. A garment arranged for use with at least one of the closures is disclosed. The use of mobile phones (for example the Apple 1 Phone or Google Android based phones) as control devices for operating the electrically operable closures is also disclosed.

[0007] The means the closures are for use with comprise at least one: a) item of clothing, and or b) garment belt and or c) item of footwear (e.g. shoes or sandals) and or d) item of jewelry (e.g watch), and or e) fashion accessory (e.g handbag). The items of clothing includes one at least of lingerie, panties, dress, trousers, shirt, blouse, jumper, bra, swimming costume, hose, skirt, kilt, blouse, socks, tie, cravat, sweater, glove, suspenders, fancy dress and or any other item of clothing. The means that the closures are for use with preferably may worn or for wearing by one at least persons and or animals and or manikins and or robots.

[0008] (2) Description of Related Art Including Information Disclosed under 37CFR 1.97 and 1.98
[0009] The fashion industry is constantly varying styles to stimulate the sale of a new line of clothing each season. These styles frequently become recycled over the years as there are only so many practical ways of designing garments. Known art clothing is typically held in place by one or more manually operable garment closures, for example: one at least of clips, claps, buttons, keyed means (e.g. chastity belts, leather apparel) zippers, bows, locks, knots, magnetic couplings, press studs, studs, laces, buckles, Velcro (trademark of the owner), and or ribbons. Despite the many fashion fads, little has been done to apply technology to garment closures to provide for a new range of fashion that may be removed using remote control means.

[0010] Prior art U.S. Patent Application 20020042937, GREEN, Alison, Titled: “Garment secured by lock and garment closure system and method” seeks to advance the art of holding garments in place on a person by the use of a garment closure that is a lock that is manually undone using a key. Said 42937 seeks to enhance the pleasure of wearing or removing a garment by utilizing a lock as a garment closure with a garment arranged to fall away from a person when the lock is undone.

[0011] U.S. Pat. No. 4,447,084 describes an explosively separable link mechanism to free a pilot from a parachute/ejector seat. The explosively separable links are not garment closures as one would ordinarily understand the term as relating to wearable items of the present invention.

[0012] U.S. Pat. No. 5,692,275 discloses remotely operable clasp that releases a latch member in response to a received photonic energy signal from a remote photonic transmitter (e.g laser gun). It is for use in a war game scenario wherein a laser gun aimed at a target latch causes a piece of fabric to release, indicating a hit. If the light striking the detector is sufficiently intense. It may also be applied to aiming the laser gun at prizes (for example at a carnival) and winning a released prize if it is hit appropriately. The disclosure also states (refer to second last paragraph of the description) ‘Other game variations may be had, such as incorporating clasp 10 in a women’s brassiere such that the brassiere comes off when clasp 10 is triggered by the laser gun 20.’

[0013] JP 2002125722 describes an electrically operable slide fastener (zip) that is operable by a wired mechanical switch. Furthermore the Japanese application deals with zips on doors and other embodiments (it does mention the word pants). The wired control is for use with a single electronic zip fastener.

[0014] WO JP 2002125722 also deals with an electrically operable zip that does not disclose the use of data or means to process data. It does disclose the use of a remote control. It does not disclose means for controlling multiple closures.

BRIEF SUMMARY OF THE INVENTION

[0015] The present invention seeks to widen the scope of technology available to the fashion industry by disclosing electrically operable garment closures (also referenced in this specification as an Enhanced Garment Closure Means or EGCM) arranged for electrically openable opening in response to one or more signals—for example: voice commands and or the progress or outcome of a game (e.g a computer game). The required response is preferably programmable and preferably programmable by the end user. As a non-limiting objective, the present invention preferably seeks to provide an alternative adventurous and provocative way of wearing and in particular removing clothing, wherein said clothing may be removed and or closure means opened, in part at least, by remote and or automated means.

[0016] Unless otherwise stated, subsequent references to an electrically operable garment closure relate to closures for use with at least one: a) item of clothing, and or b) garment
belt and or c) item of footwear (eg shoes or sandals) and or d) item of jewelry (eg watch). The items of clothing includes one at least of’ lingerie, panties, dress, trousers, shirt, blouse, jumper, bra, swimming costume, hose, skirt, kilt, blouse, socks, tie, cravat, sweater, glove, suspender, fancy dress and or any other item of clothing.

[0017] Terminology: Unless otherwise stated by the term 'known art closure', subsequent references to ‘closure’, or ‘garment closure’ or ‘electrically operable closure’ relates to an electrically operable garment closure. The term EGCMA should also be understood as referring to an electrically operable garment closure. The use of an example in this specification should be understood as a non-limiting example. The term NLE should be understood as meaning a non-limiting example.

[0018] 1) It is preferable that operation a single electrically operable garment closure and or a plurality of electrically operable closures may be controlled and or facilitated using one at least of:

[0019] a) Sound that preferably includes voice and or music. It is preferable that a garment closure may be responsive to a voice command. It is preferable that a closure may be coupled (eg wired and or wireless) to one at least devices for providing voice recognition.

[0020] b) Audio information, for example: i) analogue audio and or i) audio stored in digital format.

[0021] c) Image.

[0022] d) Computer processing of information related to the progress or outcome of a game. U.S. Pat. No. 5,692,275 discloses a target shooting game however it does not use or store information and does not disclose a computing means or a means for storing information that is computer accessible.

[0023] The preferred games for the present invention include one at least of: a computer game, a card game (eg, one at least of: poker, 500, bridge, or baccarat), a board game (eg. one at least of: scrabble or monopoly—both trademarks of their respective owners), a game of chance, a quiz (eg: trivial pursuit—trademark of its owner).

[0024] e) Text (eg alphanumeric information).

[0025] f) An access limit. For example, one at least of: a) the time of opening; b) geographic locations of opening; c) responses required to permit opening; d) the number of events that must take place.

[0026] g) Position of a garment closure or related means (for example: related to the GPS coordinates of the closure and or associated means).

[0027] h) Information selected from an electronic display.

[0028] i) Information provided by a keyboard comprising at least one key.

[0029] j) Information transferred by a computer network (for example WAN and or Internet).

[0030] k) Programmable information (for example user programmable information).

[0031] l) Information from an audiovisual remote control (for example a TV remote control).

[0032] m) Descriptive Information (eg text and or voice).

[0033] n) Telephone touch tones.

[0034] o) Information transferred by telephone.

[0035] p) Randomly generated and or selected digital information (eg digital data, digital address, time, date, location coordinates).

[0036] q) Information for restricting the unauthorized opening of the closure.

[0037] r) Encryption and or decryption of information.

[0038] s) Time and or date information.

[0039] t) Information relating to a plurality of events, said information preferably in digital format.

[0040] u) User programmable information stored on computer readable medium.

[0041] v) A computer program stored on computer readable media for execution on a computer coupled to a display means.

[0042] w) A systematic compilation of at least one of alphanumeric information or descriptive information relating to the closure. For example: The Standardised Text Library or Custom Text Library disclosed later in this specification.

[0043] 2) A system of electrically of garment closures is disclosed comprising at least a first and second electrically operable garment closure each arranged for electrically operable opening wherein the first and second closures are responsive to an from a control device and the first closure is arranged to respond in preference to the second closure and or the second closure is arranged to respond in preference to the first closure.

[0044] Prior art JP 2002125727 and WO JP 2002125727 do not disclose the use of plural closures. Prior art U.S. Pat. No. 5,692,275 discloses plural carnival prizes however the laser gun only outputs one signal (an identical signal) for all target means and said signal does not store information (except for outputting or not outputting a photonic beam) and the multiple targets are arranged for one of the targets to respond preferentially to at least one other of said multiple targets. At any time that the laser gun is activated other zero targets (if the gun is off target) or one target may be responsive. There is no prior art allowing for a plurality of closures (and or means coupled to the plurality) to be concurrently exposed to a signal for use in opening at least one of the closures.

[0045] For the system of garment closures it is preferable that the output that the first closure and or second closures are responsive to comprises a wireless output (for example radio frequency and or infrared) and or wired output (eg electrical conductor and or fiberoptic and or electronic component). It is preferable that the wired output comprises one at least electrical conductors. It is preferable that a plurality of bits of digital content may be transferred in serial format on at least one of the conductors. It is preferable that digital content may be transferred in a parallel format using at least two of the conductors.

[0046] For the system of garment closures it is preferable that the output for the first closure comprises information (“first content”) and the output for the second closure comprises information (“second content”). It is preferable the first content is distinct to the second content. It is preferable that the first closure responds to the first content preferentially to the second content and the second closure responds to the second content preferentially to the first content. It is preferable that the first and second content comprise digital content. Non-limiting examples of said content preferably comprise one at least of control, address, and or data. It is preferable that a common output is used by the first and second closure and the closure that responds is determined in part at least by the output content.
For the system of garment closures it is preferable that the first electrically operable garment closure is further arranged to respond in preference to the second electrically operable garment closure when both the first and second closure are concurrently exposed to an output from the first control device.

For the system of garment closures it is preferable that opening of at least one of the closures is determined in part at least by the processing of information related to at least one of the means disclosed in preceding paragraphs [0018] through [0040].

A control device is disclosed that is arranged to facilitate the electrically opening of at least a first and second garment closure wherein the device is further arranged for one at least of:

a) To be responsive to a received signal which enables the actuation of said first closure in preference to said second closure. For example: a Remote Undressing Means (RUM) or Personal Closure Control Means (PCCM) or Master Closure disclosed later in this specification preferably may receive a first voice command for opening the first closure and preferably after receiving said first voice command the RUM/PCCM preferably may receive a second voice command for opening the second closure, wherein the first and second voice commands are preferably distinct. This contrasts to U.S. Pat. No. 5,692,275 wherein the received signal (pulling the trigger on the laser gun) is the same for all closures and any preference between a first and second target depends on the aim of the gun.

b) Produce an output signal that concurrently facilitates the opening of the first and second closure. This is not disclosed by the prior art.

c) Concurrently produce a first and second output signal wherein the first signal facilitates the opening of the first closure and the second signal facilitates the opening of the second closure, preferably wherein the first and second output signals are distinct. This is not disclosed by the prior art.

d) Produce an output signal with first content which enables the opening of said first closure in preference to said second closure and preferably second content subsequent to said first content which enables the actuation of the second closure, wherein said first and second content are preferably distinct and preferably wherein said first and second closures and or means coupled to said closures are concurrently exposed to said produced output signal. This is not disclosed by the prior art.

e) Produce a first signal for facilitating opening of the first closure and a second signal distinct to the first signal and subsequent to the first signal for facilitating opening of the second closure, and preferably wherein both closures are concurrently exposed to each of the signals.

It is preferable that the control device may be provided in part at least by one at least of the following examples:

a) a Personal Closure Control Means, b) Remote Undressing Means (RUM), c) Master Closure and or d) information and or computer programs stored by computer readable media.

For the control device it is preferable that opening of at least one of the closures is determined in part at least by the processing of information related to at least one of the means disclosed in preceding paragraphs [0018] through [0040].

A method is disclosed for sequentially operating a plurality of electrically operable garment closures in a shared environment wherein said electrically operable garment closures are concurrently exposed to at least one output signal from a control device. It is preferable that opening of at least one of the closures is determined in part at least by the processing of information related to at least one of the means disclosed in preceding paragraphs [0018] through [0040]. Examples of a shared environment preferably may include one at least of: a) a first closure on a first person and a second closure on a second person wherein both closures are coupled to means arranged for receiving wireless information, b) a first and second closure on a first person wherein both closures are coupled to means for receiving wireless information and or wired information, c) an electronic device and at least two closures controlled by the device.

It is preferable that part at least of the information for facilitating at least one of the closures as disclosed in one at least of paragraphs [0018] through [0049] is in digital format.

A garment for use with at least one of the garment closures disclosed in one at least of paragraphs [0018] through [0050] wherein said garment is selected from one at least of:

- lingerie, panties, dress, trousers, shirt, blouse, belt, jumper, bra, swimming costume, hose, skirt, kilt, blouse, socks, tie, cravat, sweater, belt, glove, suspenders, fancy dress, shoes, sandals, and or any other item of clothing; and the garment includes one at least of:

  - an electrical conductor arranged for providing power and or electrical signals to said closure;
  - a battery and or other power source for use by the garment closure;
  - an electronic component for use as an operative part of the garment closure;
  - a coupling arranged for mating with part at least of the garment closure.

Non-limiting examples of said plurality of electrically operable closures as used in this specification preferably may include:

a) a single item of clothing comprising a plurality of electrically operable closures worn or for wearing by a person;

b) a first item of clothing including one at least closures and a second item of clothing including one at least closures wherein both clothing items are worn or for wearing by the same person;

c) a first item of clothing including one at least closures and a second item of clothing including one at least closures wherein the first item of clothing is worn or for wearing by a person and the second item of clothing is worn or for wearing by a person distinct to the person for the first item of clothing.

A means for coupling a decorative and or illuminable means to one at least of the an electrically operable closure of paragraphs [0018] through [0052] is disclosed.
An electrically operable closure comprising a button is disclosed. An electrically operable closure comprising a press stud is disclosed.

An electrically operable closure arranged to protect an electronic component from exposure to water (eg, if washing a garment attached to the closure) is disclosed.

A means for identifying a particular electrically operable closure from a plurality of closures is disclosed, for example a means for a computer to specify a particular closure (eg digital address of a closure) and/or a means for a person to specify a closure they may want to open (eg descriptive information, for example: ‘open two pink hearts’).

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

FIG. 1 OF THE DRAWINGS depicts a person wearing panties and a bra that each attached to electrically operable closures. These include master closures and slave closures. A Personal Closure Control Means (PCCM) is shown arranged for receiving information from a Remote Undressing Means (RUM). Optional signals for facilitating opening of the closures are shown (for example image, GPS information, Real Time Clock Means, Game Tracking Means, Audiovisual Management Means, and/or Party Management Means).

Fig. 2 OF THE DRAWINGS depicts an electrically operable closure with a plurality of separately releasable means. It also depicts a button arranged for manual opening using known art means and for electrically operable opening.

FIGS. 3, 4 and 5 OF THE DRAWINGS depicts internal arrangements for electrically operable closures.

FIG. 6 OF THE DRAWINGS depicts control means for a closure.

FIG. 7 OF THE DRAWINGS depicts a dress constructed of a plurality of geometric shapes each arranged for uncoupling in response to one or more signals.

FIG. 8 OF THE DRAWINGS depicts an example of a Personal Closure Control Means.

DETAILED DESCRIPTION OF THE INVENTION

The present specification discloses the use of one or more electrically operable garment closures for use with at least one: a) item of clothing, and/or b) garment belt and/or c) item of footwear (eg shoes or sandals) and/or d) item of jewelry (eg watch), and/or e) fashion accessory (eg handbag).

The items of clothing includes one at least of lingerie, panties, dress, trousers, shirt, blouse, jumper, bra, swimming costume, hose, skirt, kilt, blouse, socks, tie, cravat, sweater, glove, suspenders, fancy dress and/or any other item of clothing. The actual invention is that as disclosed in the claims.

Preferred means of using/controlling/building/operating these closures are now disclosed in detail with reference to the drawings.

It is preferable that operation a single electrically operable garment closure and/or a plurality of electrically operable closures may be controlled and or facilitated using sound and/or audio and/or image means. Examples of Audio means, preferably may include: a) spoken and/or sung by a human; and/or b) music; and/or c) whistle; and/or d) animal noises; and/or e) mechanical noises; and/or f) telephone tones; and/or g) audio tones. Examples of Image means preferably include images of one at least: a) humans; in part at least; and/or b) faces; and/or c) breasts; and/or d) human reproductive components (said components preferably may be in one at least possible states). As an example: said audio and/or image means preferably may include: a) live means (eg, human voice and/or song; dog barking); and/or b) electronically generated; and/or c) microphone means; and/or d) speaker means; and/or e) display means; and/or f) image capture means; and/or g) recorded onto and/or played from CD Disc, DVD, Tape, Memory Storage Means, Video tape examples of said memory storage means preferably may include one at least of: i) flash memory, and/or ii) SRAM (preferably may be battery backed), and/or iii) DRAM (preferably may be battery backed), and/or iv) EEPROM, and/or v) hard disk; and/or h) delivered by telephone; and/or i) delivered by wide area networks an example of which preferably may include the Internet; and/or j) delivered by Intranet; and/or k) delivered by broadcast means, (examples of which preferably may include one at least of: i) television, and/or ii) radio, and/or iii) cable (that for example preferably may include fibreoptic and/or coaxial), and/or iv) satellite.

The audio means preferably may be delivered to the target means, in part at least, in its natural format, (eg sound waves through a conductive medium (eg air)) and prior to reaching the target means said sound waves preferably may be converted in part at least to a secondary format examples of which preferably may include one at least of: i) wireless, (for example: optical, and/or I/R, and/or RF transmissions); and/or ii) wired examples of which preferably may include one at least of electrical conductors and/or fibreoptic). Said converted preferably may: a) include analogue and/or digital formats; and/or b) be encoded and/or encrypted in part at least.

The image means preferably may be delivered to the target means, in part at least, a) in its natural format (eg light waves through a conductive medium (eg air); and b) prior to reaching the target means said light waves preferably may be converted in part at least to a secondary format examples of which preferably include one at least of i) wireless examples of which preferably may include optical, and/or I/R, and/or RF transmissions) and/or wired examples of which preferably may include one at least of electrical conductors and/or fibreoptic). Said converted preferably may: a) include analogue and/or digital formats, and/or b) be encoded and/or encrypted in part at least.

Audio and/or image means, in part at least, preferably may be directly delivered to the target means in a secondary format by one at least of the following non-limiting methods: a) wireless examples of which preferably may include optical, and/or I/R, and/or RF transmissions); and/or b) wired (examples of which preferably may include electrical conductors and/or fibreoptic). Said secondary format preferably may include analogue and/or digital formats and said secondary format preferably may be encoded and/or encrypted in part at least.

3. Commands and/or Data Means preferably may be sent to the target means in analogue and/or digital format, preferably by one at least of the following non-limiting means: a) wireless (examples of which may include: visible light, and/or microwave, and/or I/R, and/or RF); and/or b) wired (examples of which preferably may include fibreoptic;
than and/or coaxial; and/or electrical conductors. Said commands and/or data preferably may be encoded and/or encrypted in part at least.

[0089] It is preferable that the transfer of information from a remote means to a target means may be influenced, in part at least, by control means coupled to said remote means. Examples of said control means may include timed means, and/or event type and/or event frequency means. As a different example, any of the timed, and/or event type, and/or event frequency means described for garment closures later in this specification, preferably may be used, in part at least, in said control means. It is preferable that said remote means may be protected by password means.

[0090] It is preferable that closures are of compact size. It is preferable that said closures do not interfere with the normal wear and/or fall and/or comfort of garments.

[0091] It is preferable that closures include one at least integrated circuit, preferably custom designed (e.g. ASIC and/or programmable logic, and/or standard cell) and/or microprocessor means.

[0092] It is preferable that said remote means includes one at least integrated circuit, preferably custom designed (e.g. ASIC and/or programmable logic, and/or standard cell) and/or microprocessor means.

[0093] As an example, one at least garment closures preferably may open, in part at least, in response to one at least timing means, coupled to said closure. For example, an electronic clock means, that is preferably a real time clock and/or calendar means and/or any other periodic counter means, may be used to control and/or signal and/or otherwise indicate that part at least, of one at least closures, may open in part at least. It is preferable that a) said timing means has a power means, e.g. battery and/or capacitor, and/or b) there is a means to update said timing means (e.g. change time and/or date).

[0094] As an example, one at least EGCM preferably may open, in part at least, in response to one at least event logging means coupled to said EGCM.

[0095] It is preferable that there is a means to program said EGCM and/or means coupled to said EGCM, with one at least trigger means to indicate when said EGCM should open. As an example, said trigger means preferably include one at least: a) timing trigger means wherein, one at least time periods that said EGCM is to open preferably may be programmed into means coupled to said EGCM; and/or b) event trigger means, wherein one at least remote and/or internal event triggers to facilitate opening of said EGCM preferably may be programmed into means coupled to said EGCM.

[0096] It is preferable that one at least EGCM includes one at least means to receive and/or process and/or decode and/or decrypt one at least of the examples of remote means previously described in this document.

[0097] Said remote means preferably may act directly on one at least EGCM's and/or indirectly on one at least EGCM's. Examples of said indirect means preferably may include said remote means: a) controlling a first electrically operable garment closure and said first closure then controlling the uncoupling of one at least second closures; and/or b) controlling a means that controls one at least closures.

[0098] It is preferable that the means used by one at least first EGCM to communicate with one at least second EGCM preferably may include, for example, any one at least means described for a remote means to communicate with one at least EGCM.

[0099] It is preferable that the means used by one at least second EGCM to receive information from one at least first EGCM preferably may include, as for example, any one at least means described for one at least EGCM to receive information from one at least remote means.

[0100] It is preferable that there is a protection means to restrict and/or prevent the unauthorized opening of one at least; closures. It is preferable that said protection means is coupled to one at least EGCM. It is preferable that said protection means includes a password means.

[0101] It is preferable that there is a transfer means for external means (for example a Personal Closure Control Means (PCCM) and/or a remote means (e.g. Remote Undressing means (RUM)) to read and/or write a) command and/or b) control and/or c) data means from and/or to one at least EGCM. It is preferable that said external means may send a signal means to one at least EGCM requesting activation of said transfer means. It is preferable that said activation request may be blocked by manual and/or automated means. Said blocking is preferably by means coupled to said EGCM and/or one at least Personal Closure Control Means.

[0102] The present invention preferably may be applied in part at least, known art closures. It is preferable that said known art closure may be opened using their traditional means and/or by using automated and/or remote means. Preferred examples may include one at least of: a) a motor (preferably small) may drive a zipper up and/or down, preferably in response to automated and/or remote commands; and/or b) a magnetic coupling may be made to uncouple by means that remove the magnetism, in part at least, with said removal preferably in response to remote means; and/or c) a press-stud coupling may be made to release by a means that is activated to propel said couplings apart—said activated is preferably in response to remote means; and/or d) a button may be made to come undone either by i) undoing it using conventional means; and/or ii) coupling and/or incorporating part at least of an EGCM to a button means, such that part at least of the button is released and/or deformed using a means, for example, that allows a first part of a garment to separate from a second part.

[0103] It is preferable that, that for example, a) locks; and/or b) facsimiles and/or replicas of locks and/or c) any other decorative and/or functional means, collectively referenced as Decorative means, may be coupled to a closure. It is preferable that said coupled may include one at least of the following: a) attaching said decorative means to a manual release means; and/or b) designing said manual release means as said decorative means; and/or c) one at least decorative means that fits over said EGCM, in part at least; and/or d) one at least decorative means that couples magnetically to said EGCM.

[0104] Referenced as a garment illumination means, it is preferable that one at least EGCM (and/or means coupled to said EGCM and/or means coupled to one at least garments that interface to said EGCM) illuminates and/or may be made to illuminate, in part at least. Examples of said illumination means preferably include: a) glow in the dark means (e.g. using rare earth means); and/or b) chemical light means; and/or c) electrically generated light means (e.g. LED's, and/or LCD's, and/or incandescent means, and/or electro-luminous means, and/or light emitting plastics).

[0105] It is preferable that said illumination may be made to illuminate and/or extinguish under the influence of one at least remote and/or automated means. Said remote and/or
automated means preferably may include, in part at least, those described for the present invention.

[0106] It is preferable that said illumination means may be coupled to said decorative means, in part at least; and/or any other means described for the invention; and/or to any other means.

[0107] It is preferable that said illumination means may illuminate in one at least shapes and/or text, examples of which preferably may include one at least of: heart(s), birthday month stones; rings; anniversary symbols (eg paper, pearl, gold); body parts, greetings, age, number. It is preferable that said illumination means may illuminate in one at least colours. It is preferable that said illumination means may, in part at least, be coupled to said EGCM and/or garment after manufacture of said EGCM and/or garment. Including part at least of said illumination means within said decorative means preferably provides one non-limiting method of said coupling after manufacture.

[0108] Referenced as a garment acoustic means, it is preferable that one at least: a) EGCM (and/or means coupled to said EGCM, and/or means means coupled to one at least garment that interface to said EGCM) and/or b) Personal Closure Control Means, and/or c) RUM emits sound and/or may be made to emit sound. Examples of said acoustic means preferably include speaker means, and/or piezo-electric means.

[0109] It is preferable that said acoustic means may be made to emit sound and/or stop emitting sound under the influence of one at least remote and/or automated means. Said remote and/or automated means preferably may include, in part at least, those described for the present invention.

[0110] It is preferable that one at least EGCM is coupled to one at least image detection and/or capture means and/or means to process said captured image information. An example of said image detection means may include one at least of National Semiconductors CMOS Image Sensors. Said image detection and/or capture means preferably may be added using means described for decorative means.

[0111] It is preferable that the means of the present invention may be used, in part at least, in one at least of the following examples of entertainment means: cinema and/or television production, commercials, live stage shows (indoor and/or outdoor). For example, a model dressed in garments that in part at least may progressively come undone in response to remote signals may provide a novel, and/or unique, and/or entertaining, and/or useful means to one at least movies, television shows, commercials, fashion shows, stage shows.

[0112] It is preferable that the means of the present invention may be used, in part at least, during a party and/or dance (and/or similar means). For example, a party and/or dance means preferably includes a predetermined and/or random sequence of codes to concurrently and/or sequentially unlink EGCM’s on garments on one at least models, over one at least periods of the party and/or dance. Said unlinking preferably may be influenced by means coupled to one at least EGCM.

[0113] It is a non-limiting preferable objective of the present invention to include a means wherein, entertainment delivered from a preferably remote source preferably may be used to influence the uncoupling of one at least garments. For example, audio and/or video from one at least of the following sources a) CD, and/or b) video, and/or c) DVD, and/or d) TV, and/or e) cable, and/or f) Internet, preferably may be a means that may open one at least EGCM.

[0114] It is a non-limiting preferable objective of the present invention to include a means wherein the Internet preferably may be used to facilitate the unlinking of EGCM. For example, Internet chat rooms and/or Email and/or web pages may send one at least signals to unlink one at least EGCM at one at least locations. For example, said signals may include audio and/or image means. It is preferable that one at least parties is coupled to an image capture means to send images via the Internet of the results of said unlinking of EGCM.

[0115] It is a non-limiting preferable objective of the present invention to include the method of providing conversion means for prior art garments to the means of the present invention. Said conversion means preferably includes instructions. Said conversion means preferably includes means to connect said garment to the means of the present invention.

[0116] It is a non-limiting preferable objective of the present invention to include the method of using of one at least EGCM’s, in one at least games. Said game may include games of chance and/or skill. Said game may include a means to deliver alcoholic beverages. Said game may include the progressive removal of clothing, preferably using the means of the present invention. Said removal is preferably in response to various games of chance and/or skill.

[0117] It is a non-limiting preferable objective of the present invention to include the method and/or process of advertising and/or promoting one at least: a) EGCM’s and/or remote means; and/or b) garments that include one at least EGCM’s; and/or c) garments for use with one at least EGCM’s; and/or d) garments that may be opened by remote control; and/or e) means (that may include instructions) to couple garments to EGCM’s; and/or f) adapting one at least garments for use with the means of the present invention and/or g) instructions on how interface at least one part of a garment to at least one EGCM; and/or h) instructions on the use of any part of the invention; and/or i) any part at least of the means of the present invention. For example, said advertising preferably may include television, and/or cinema and/or printed matter.

[0118] It is a non-limiting preferable objective of the present invention to include the process and/or method, of ordering, and/or selling (that for example may include sale, and/or hire, and/or rental and/or leasing, and/or exporting, and/or importing, and/or transporting from a first jurisdiction to one at least second jurisdiction, and/or from a first location to one at least second locations, of one at least: a) EGCM’s and/or remote means and/or Personal Closure Control Means; and/or b) garments that include one at least EGCM’s; and/or c) garments for use with one at least EGCM’s; and/or d) garments that may be opened by remote control; and/or e) means to couple garments to EGCM’s; and/or f) adapting one at least garments for use with the means of the present invention; and/or g) instructions on how interface at least one part of a garment to at least one EGCM; and/or h) instructions on the use of any part of the invention; and/or i) any part at least of the means of the present invention.

[0119] It is a non-limiting preferable objective of the present invention to include means, wherein said EGCM’s may be used more extensively as an integral-interconnect of garment components. For example, a garment may be composed of a plurality of geometric shapes that may include, for example: a) circles, and/or squares, and/or rectangles, and/or ovals, and/or triangles, and/or polygons; and b) one at least geomet-
ric shapes preferably may be coupled along one at least axes to one at least other geometric shapes. Said coupling preferably may include part at least of the means described for an EGCM. For example, a dress may be constructed from said geometric shapes (in part at least) and under the influence of a automated and/or remote means, made to uncouple, concurrently and/or sequentially.

[0120] In an environment where plural persons may have one at least components of their garments falling into a collective environment (eg, a dance floor), it is preferable that there is a means to facilitate restoration of said garment components to their owners. It is a non-limiting objective of the present invention to preferably include the method of: a) registering ownership and/or identification of said parts (eg by electronically reading electronic ID within one at least EGCM); and/or b) electronic means used in the storage of said garment components; and/or c) electronic means in the return of said garment components.

[0121] It is a non-limiting preferable objective of the present invention to include the method and/or apparatus of protecting electronics and/or mechanical means of the invention from the washing/cleaning process, for example, protection against water and/or solvents.

[0122] It is a non-limiting preferred objective of the present invention to describe a means wherein at least a first part of garment may be influenced to uncouple from at least a second part of garment, wherein said influence is dependent on the latitude and/or longitude and/or altitude of at least models. The preferred method of meeting this objective is to couple a GPS means to one at least models. This is preferably by coupling said GPS means, in part at least, to one at least EGCM and/or decorative means and/or Personal Closure Control Means (PCCM). A NLE may include the use of the Maxim MAX2740 Integrated GPS Receiver and Synthesizer. The data sheet for this device is incorporated by reference. It is preferable that one at least geographic coordinates may be programmed into one at least means, preferably coupled to one at least models, and preferably coupled to said GPS means. It is preferable that when said GPS means is located at one at least said geographic coordinates (preferably by the movement of said model) that it may influence opening of one at least EGCM. It is preferable that the geographic coordinates and/or any other information received by said GPS may be displayed on one at least means, preferably one at least decorative means. As a NLE, a garment preferably includes one at least buttons that may display part at least of the received GPS information.

PREFERRED EMBODIMENTS

[0123] The first part of the description of the preferred embodiment references FIG. 1 of the drawings.

[0124] The invention seeks to describe a means wherein one at least garments that are being worn and/or may be worn by a model (250) are preferably in part at least held in place on said model by one at least closure means that may be opened by a process that includes automated means. Said opening is preferably in response to one at least remote commands. Said remote commands are preferably instigated by one at least operators (249). Examples of said operator 249 preferably may include one at least humans (eg intimate partner of the model). Said operator preferably may include the model.

[0125] The number of garments that the invention may be applied to and/or that the model may wear are preferably not limited. In the present example model (250) is wearing a bra (290) and panties (291). The bra (290) includes closure means (257), (268) and (273) that are coupled to automated opening means and/or means to respond to remote opening commands. The panties (291) include closure means (256) and (264) that are coupled to automated opening means and/or means to respond to remote opening commands.

[0126] It is preferable that each garment using part at least of the means of the invention includes one at least EGCM's that may communicate via wireless means. Said wireless preferably includes one at least of Infrared or RF means. This type of EGCM's is referenced as a Master Closure. It is preferable that said Master Closure includes a power means (eg a battery) to power itself and/or to power other coupled means. EGCM (257) coupled to bra (290) and EGCM (256) coupled to panties (291) are examples of Master Closures.

[0127] It is preferable that garments may be coupled to at least one EGCM's that receives power and/or opening commands and/or other information from one at least Master Closures. This type of EGCM is referenced as a Slave Closures. The preferred means of delivering power and/or ground and/or commands and/or other signals from a Master Closure to a Slave Closure is via wired electrical conductor means. Said electrical conductor means preferably include electrical wiring and/or printed circuit means. Said printed circuit means preferably includes flexible mylar means. EGCM's (268), (273), and (264) are examples of Slave Closures. It is preferable that part at least of said electrical conductors are embedded and/or hidden by the fabric of the garment.

[0128] It is preferable that one at least garments may not include any Master Closures For examples (not shown) the Master Closure. (256) coupled to panties (291) preferably may be replaced by a Slave Closure and a conducting means connected between Master Closure (257) and the replacement Slave Closure.

[0129] It is preferable that the invention allows for a Personal Closure Control Means (200) to be coupled to the model (250) to provide part at least of the means of the invention. One preferred embodiment of a Personal Closure Control Means is as a pendant (200) that may be worn around the neck. Other examples of a Personal Closure Control Means preferably may include one at least of a wristwatch, belt buckle; bracelet; ring; earrings; key tag. EGCM's and Personal Closure Control Means may be referenced as Target Means in this specification. It is preferable that: a) means described for one at least EGCM's may be included in part at least one at least Personal Closure Control Means; and/or b) means described for one at least Personal Closure Control Means may be included in part at least one at least EGCM's and/or (c) the Personal Closure Control Means (200) is the primary means of communicating with EGCM's coupled to the model wearing said Personal Closure Control Means.

[0130] Remote signals that may influence opening of one at least EGCM's are preferably directed and processed by one at least Personal Closure Control Means. It is preferable that one at least Personal Closure Control Means may send opening command(s) (265) to one at least Master Closures (eg 256, 257) and/or SEGCM's (eg 264, 268, 273) by wireless means (265). Said wireless means are preferably IR and/or RF.

[0131] The preferred means of said Personal Closure Control Means issuing commands to EGCM(s) is by RF means. Said RF Means are preferably one at least of Blue Tooth; 802.11 and/or Zigbee, and/or the means used for remote control units for RF garage door openers.
[0132] Said Personal Closure Control Means Command preferably includes the transfer of one at least opening commands to one at least Master Closures (eg. 256). The target Master Closures are preferably addressed by said Personal Closure Control Means (200). The RF transmission of the ID Means of said Personal Closure Control Means (257) preferably addresses the model as determined by said GPS means (244) preferably may be used to influence opening of one at least EGCM’s. Said Personal Closure Control Means Command preferably includes the transfer of one at least opening commands to one at least Master Closures (eg. 256). The target Master Closures are preferably addressed by said Personal Closure Control Means (200). The RF transmission of the ID Means of said Personal Closure Control Means (257) preferably addresses the model as determined by said GPS means (244) preferably may be used to influence opening of one at least EGCM’s.

[0133] As an example, the target closure for opening be Slave Closure (273), the Personal Closure Control Means Command (200) preferably addresses Master Closure (257) by the RF transmission of the ID Means of said Master Closure (257) together with the ID Means of the target Slave Closure (273). Should the target closure for opening be the Master Closure (257) itself the preferred method is to include said Master Closure (257) ID Means in place of the ID Means of Slave Closure (256).

[0134] In the present example of FIG. 1, a command to open Master Closure (256) and/or (257) preferably results in said Master Closure(s) using its own power to open one at least closures of 256 and/or 257. A command to open SEGCM (264) preferably results in Master Closure 256 sending power and/or control signals along electrical conductor 238 to effect opening of SEGCM 264. Similarly, a command to open SEGCM’s 268 and/or 273 preferably results in Master Closure 257 sending power and/or control signals along conductors 275a and/or 275b to effect opening of SEGCM’s 268 and/or 273.

[0135] It is preferable that a command to open plural closures may be sent. Said plural command preferably includes a means to advise how many closure are being referenced.

[0136] It is preferable that one at least Personal Closure Control Means 200 may receive confirmation from one at least EGCM that said command was received and/or acted upon successfully. Said means of sending information from one at least EGCM’s to said Personal Closure Control Means preferably includes one at least of the means described for a Personal Closure Control Means to communicate with said EGCM with the preferred method using one at least R/F means.

[0137] It is preferable that commands sent from one at least Personal Closure Control Means 200 to one at least EGCM’s are encrypted in part at least. It is preferable that EGCM’s coupled to said Personal Closure Control Means include the required decryption key. It is preferable that said decryption key may be loaded into said EGCM’s from said Personal Closure Control Means.

[0138] It’s preferable that the encryption is different on a subsequent command to open particular closure. One non-limiting reason for this is to prevent eavesdropping.

[0139] One non-limiting means of varying the encryption process is to preferably include data obtained from a Real Time Clock/Calendar Means (283) coupled to said Personal Closure Control Means in the encryption process. It is preferable that encryption of said command may use a Real time Clock/Calendar Means (RTC) coupled to one at least EGCM’s. It is preferable that there is a means to synchronise the RTC’s in the Personal Closure Control Means and coupled EGCM’s.

[0140] It is preferable that one at least Personal Closure Control Means (200) may be coupled to a Global Positioning System Means (GPS) (244), and that as an example, the model as determined by said GPS means (244) preferably may be used to influence opening of one at least EGCM’s.

[0141] As an NLE example, it is preferable one at least Personal Closure Control Means may be programmed with one at least GPS coordinates that correspond to one at least locations at which one at least EGCM may open when the model (preferably wearing said Personal Closure Control Means is located at said GPS coordinate. Opening of the closure means preferably may be influenced by other means.

[0142] It is preferable that one at least Personal Closure Control Means (200) may be used to obtain part at least of the GPS coordinates that are to be programmed into it, for example: one may walk around a performance space and gather GPS coordinates at various locations. These preferably may then be used to program said Personal Closure Control Means and/or one at least other Personal Closure Control Means and/or provide information to other means (eg a PC program).

[0143] For example, a dancer preferably may develop a routine wherein one at least EGCM’s open when he/she is located at one at least predetermined geographic coordinates on his/her performance stage.

[0144] For example, one at least guests at a party and/or dance preferably are sent (preferably by wireless means) a predetermined and/or random selection of GPS Coordinates (preferably corresponding to locations on the dance floor and/or location of the party) at preferably random and/or predetermined times, and one at least guests whose geographic location corresponds to the current broadcast GPS coordinates preferably has one at least EGCM’s open. Said opening preferably may be influenced by other means.

[0145] It is preferable that one at least Personal Closure Control Means (200) includes an image capture (241) (eg CMOS Image Sensor and Lens) and/or image processing and/or image recognition means. For example, it is preferable that said imaging means may be used to capture an image of part at least of one at least operators (249) and preferably use this information to influence the opening of one at least EGCM’s—for example the smiling face of one’s partner may be required to open one at least closures.

[0146] It is preferable that opening of one at least EGCM’s may be influenced by the value of Real Time Clock Means (283) that may be coupled to Personal Closure Control Means (200).

[0147] It is preferable that one at least Personal Closure Control Means may interface with one at least a) Game Tracking Means (243) and/or b) Audiovisual Management Means (240) and/or c) Party Management Means (242).

[0148] It is preferable that one at least Personal Closure Control Means may perform utility functions on one at least EGCM’s. These are referenced as Local Utility Means. The reading of data from and/or writing data to one at least EGCM’s to facilitate said utility functions preferably uses an IrDa interface, and/or RF means, and/or electrical conductor means.

[0149] The invention preferably allows that one at least utility function for means coupled to the invention may be performed on one at least User Controlled Data Processing Means (UCDPM) (eg personal computer) and/or via means coupled to the Internet. These are referenced as Extended Utility Means. It is preferable that one at least Personal Closure Control Means may transfer information to and/or from a personal computer means (281) and/or the Internet (280) to facilitate said Extended Utility Means. The preferred method of communication between Personal Closure Control Means and UCDPM is IrDa and/or R/F. The invention preferably
allows for a means that couples to one at least UCDPM’s to facilitate transfer of information between UCDPM and Personal Closure Control Means.

[0150] Remote Means: It is preferable that one at least of the following examples be used by one at least operators (249) to issue closure opening commands to means coupled to one at least garment(s) (eg bra 290, panties 291) worn by the model (250):

[0151] 1) Voice commands (246) that preferably includes one at least of the following methods: a) spoken commands/instructions transmitted through a medium (eg air) to one at least target means, (eg 200, &/or 257, &/or 256) coupled to the model (250) and preferably received by a microphone means (not shown) coupled to said target means. The target means preferably includes voice recognition means. The preferred method is to allocate sound reception and processing functions to one at least Personal Closure Control Means (200), b) intercept the transmitted sound by a means local to the operator (249). An example may be to include microphone and/or voice processing means in an operator (249) controlled Remote Undressing Means (RUM) (247). The processed information (eg commands) is then preferably sent as IR and/or RF signals to the target means (eg 200, &/or 256, &/or 257). The preferred target means is one at least Personal Closure Control Means (200). For example, part at least of the received sound may be digitised and the digitised format sent (eg IR and/or RF) to one at least Personal Closure Control Means for further processing, and/or said digitised information may undergo voice recognition processing by means coupled to said RUM and part at least of the results of said processing are preferably sent (eg IR and/or RF) to one at least Personal Closure Control Means.

[0152] TV Remote Control Means (and/or other Audiovisual RCM) (292). The means described in the preferred embodiment applies to TV remote controls that transmit using infrared. The invention preferably allows for any other means (preferably wireless) including for example R/F means. The invention preferably allows that part at least of said TV Remote Control (292) may be included as part of the means of Remote Undressing Means (247).

[0153] It is preferable the operator enters a password into said remote control unit (eg a numeric sequence using numeric channel selection keys) to gain access to further functions. Said password preferably being provided by the model. It is preferable that the default password(s) shipped with one at least EGCM’s are printed on the enclosure of said EGCM’s (eg the back surface of said EGCM where it is preferably not readily visible to the operator).

[0154] A preferred example of a means to open one at least closures on one at least EGCM’s may be to enter a numeric code on said remote control (preferably while pointing the I/R output towards the target means) that corresponds to a closure that may be opened.

[0155] One preferred example of a means for said operator to obtain the numeric code may be to have the model advise the operator of the password.

[0156] Another preferred example of a means for said operator to obtain the numeric codes is by determining the PICM Numeric Value (described later in this specification).

[0157] A preferred example of a means to open one at least closures coupled to one at least EGCM’s may include sequentially pressing the up and/or down channel key on said remote control means, to preferably sequentially open the next closure in sequence. A flashing LED (eg green color) on the next EGCM’s in sequence preferably may assist said third party in this endeavor. In another preferred variation the up channel key may be used to open to the next closure means in sequence and the down key to skip a closure means.

[0158] It is preferable that one at least Master Closure coupled to a garment (eg 256 &/or 257) may respond to commands issued by TV Remote Controls. This approach preferably provides at least one means of remotely removing garments without requiring the consumer to purchase additional control means (eg Personal Closure Control Means (200) and/or RUM (247) as the majority of users of the invention are likely to have access to at least one TV remote control.

[0159] 3) Remote Undressing Means (RUM) (247) that preferably may transfer closure opening commands and/or other information to one at least Personal Closure Control Means, preferably using one at least of the RF and/or IR means described for a Personal Closure Control Means. It is preferable that one at least Personal Closure Control Means may communicate (eg RF and/or IR) with one at least RUM 247. For example, it is preferable that the operator 249 may enter a) commands on an alphanumeric keypad coupled to said RUM 247 and/or b) press predetermined command keys coupled to said RUM 247 and/or c) select from one at least menus on a display means (eg LCD) coupled to said RUM. As previously described said RUM 247 preferably may receive voice commands 246 and preferably process these in part at least for transfer to said Personal Closure Control Means 200 via RF and/or IR means. The invention preferably allows that said RUM 247 may include an image capture and/or image processing means. Said image means preferably may perform part at least of the means previously described for image means coupled to one at least Personal Closure Control Means. One at least RUM 247 preferably may have coupled memory storage means programmed and/or edited by a) one at least Personal Closure Control Means and/or b) using part at least of the means described for programming one at least Personal Closure Control Means and/or EGCM’s. It is preferable that part at least of Personal Closure Control Means and RUM functions may be included in a single device.

[0160] Internet Influenced Closure Opening Means (II-COM). The invention preferably allows for a) means (eg a computer program(s)) coupled to one at least User Controlled Data Processing Means (UCDPM) (281) (eg. personal computer and/or b) information transferred via a WAN (280) (eg the Internet); to influence the opening of one at least EGCM’s. The preferred method is to provide a device that interfaces to said UCDPM. The device preferably obtains power from said UCDPM. Non-limiting means of coupling said device preferably include one at least of: the games port and/or serial port and/or parallel port and/or USB. Said device preferably transfers information to one at least Personal Closure Control Means preferably by wireless means (eg RF and/or IR). Said transferred information preferably influences the opening of one at least EGCM’s. It is preferable that information may be transferred from said Personal Closure Control Means to said UCDPM and/or WAN. Said information from said Personal Closure Control Means preferably may include images. It is preferable that computer and/or Internet influenced opening of EGCM’s may in part at least be influenced by the progress and/or outcome(s) of a) one at least computer games and/or b) one at least computer games and/or other activities conducted using the Internet. The invention preferably allows that part at
The invention preferably allows for a Telephone Tone Closure Opening Means (TTCCOM) (not shown) to permit telephone tones and/or other information sent via the telephone system to influence the opening of one at least EGCM’s. The preferred method allows for a self powered device to couple to a telephone handset and digitise telephone tones, sending the digitised results to one at least Personal Closure Control Means, preferably by the wireless means previously described for a RUM 247. Those experienced in the art should be able to adapt the means described for TV Remote Control of closure opening, to be applied to a telephone keypad. The hash and star keys of said telephone keypad preferably may replace the up/down channels keys of said TV remote control. The invention preferably allows for the use of cellular phones that include wireless means (eg Bluetooth, Zigbee, 802.11) to be loaded with one at least programs that may communicate with one at least Personal Closure Control Means 200 to influence opening of EGCM’s. The invention preferably allows that part at least of the means of one at least TTCCOM may be included in one at least Personal Closure Control Means.

The invention preferably allows for the progress and/or outcome of games (eg board and/or card games) to influence the opening of one at least EGCM’s. As NLE’s, said games preferably may include one at least of poker, 500, bridge, canasta, blackjack, baccarat, scrabble, monopoly, trivial pursuit. The invention preferably allows for a Game Tracking Means (GTM) 243 that for example preferably may track the results of one at least participants in said game and depending on preferably predetermined and/or random and/or other means, send a preferably wireless signal (eg RF and/or IR) to one at least Personal Closure Control Means. Said signal preferably may influence opening of one at least EGCM’s. It is preferable that instead of and/or in conjunction with influencing said opening of EGCM’s that said Game Tracking Means 243 may advise one at least participants in said game to eat and/or drink. The invention preferably allows that said game tracking may be automatic in part at least (eg using electronic deck(s) of cards, and/or electronic board games). It is preferable that provision of said food and/or drink may in part at least under automated means (eg electronically controlled and/or operated doors and or trays). It is preferable that one at least Personal Closure Control Means may be programmed to restrict the EGCM’s that may be influenced by said Game Tracking Means 243. The invention preferably allows that part at least of the means of one at least Game Tracking Means may be included in one at least Personal Closure Control Means.

The invention preferably allows for a Party Management Means (PMM) 242 at a party and/or dance and/or event, to influence the opening of one at least EGCM’s. It is preferable that said PMM may be loaded with the Personal Closure Control Means ID means of participant models and preferably a list of the garments and/or coupled EGCM’s worn by said participants. It is preferable that one at least Personal Closure Control Means may restrict access to one at least of its coupled EGCM’s. It is preferable said PMM may be programmed with said restrictions. The transfer of this information from Personal Closure Control Means to PMM is preferably by RF and/or IR means. For example, said PMM preferably may be programmed with predetermined and/or random and/or other means that during part at least of a party and or dance preferably influence the transfer of information, by preferably wireless means (eg RF and/or IR), that may influence the opening of one at least EGCM’s coupled to one at least participants. It is preferable said signals may include one at least of: a) Personal Closure Control Means ID Means that may be targets for closure opening and/or b) EGCM ID Means that may be targets for closure opening and/or c) GPS means, and/or d) times that one at least events may occur and/or the number of times that an event may occur prior to closure opening. It is preferable that one at least Personal Closure Control Means (preferably coupled to participants) monitors said information sent by said PMM to determine if and/or when it is to be opened to one at least of its coupled closures in response to said information. For example, said d) and/or e) preferably may be programmed in part at least into one at least Personal Closure Control Means when initially transferring information between Personal Closure Control Means and PMM as previously described. It is preferable that one at least Personal Closure Control Means may be programmed to restrict the EGCM’s that may be influenced by said Party Management Means. The invention preferably allows that part at least of the means of one at least PMM may be included in one at least Personal Closure Control Means.

The invention preferably allows for the playing of one at least audio means (eg music, songs) and/or video means (eg film clips) that influence the opening of one at least EGCM’s and the preferred means includes uses of Audiovisual Management Means (AMM) 240. The invention preferably allows for the advertising and/or production and/or distribution and/or sale and/or playing of: a) audio and/or b) visual and/or c) other means that: i) interface with said AMM 240 and/or ii) may influence the opening of one at least EGCM’s.

1) NLE’s of means of supplying said audio and/or video means preferably includes one at least of CD, DVD, Internet, Memory Storage Means, Videotape, Cable, live performances (eg concerts, fashion shows).

2) It is preferable that said AMM is coupled to means that may receive and/or process information that relates to the playing of said audio and/or visual means. Preferably in response to part at least of said received and/or processed information, said AMM preferably transfers (eg by RF and/or IR means) information to one at least Personal Closure Control Means that preferably influence the opening of one at least EGCM’s on one at least models.

3) Trigger Means for influencing the opening of one at least EGCM in response to audio and/or visual means preferably includes one at least of the following NLE’s:

a) Broadcast Sound Trigger Means that preferably includes one at least of the following NLE’s:

b) one at least audio means (eg CD and/or DVD) preferably may include one at least predetermined sounds in the sound track, wherein said predetermined sounds are preferably recognised by said AMM as a trigger to garment closure opening. This type of trigger is referenced as Predetermined Embedded Audio Means (PEAM). As a NLE one at least PEAM preferably may includes a first frequency playing for a first period of time and a second frequency playing for a second period of time. It is preferable that plural codes may be created by varying frequency and/or period. It is preferable that one at least AMM’s is preprogrammed with one at least PEAM and/or is coupled to means to recognise said PEAM. It is preferable that one at least PEAM’s is generic to a plurality
of different audio tracks. It is preferably that one at least PEAM’s may be a predetermined phrase (eg ‘drop your goodies’). One at least AMM preferably digitises the transmitted sound and processes this information looking for digital formats that match and/or approximate previously stored digital formats.

0170. one at least audio means (eg CD and/or DVD) preferably may include one at least custom sounds in the sound track, wherein said custom sounds are preferably recognised by said AMM as a trigger to garment closure opening. This type of trigger is referenced as Custom Embedded Audio Means (CEAM). It is preferable that there is a means to assist one at least AMM’s to recognise one at least CEAM’s. It is preferable that one at least PEAM’s may trigger one at least AMM’s to seek out CEAM’s in the incoming sound. As a NLE it is preferable that said means to assist includes one at least of:

0171. a. including part at least of one at least means on an audio means (eg CD and/or DVD) as a soundtrack of one at least CEAM’s. Said CEAM’s preferably relate in part at least to those used in sound/music on the coupled audio means and/or on other audio means. This is preferably played while one at least AMM is programmed to digitise the transmitted sound, preferably storing it in a database for future use.

0172. b. including one at least CEAM’s in a preferably pre-digitised digital format on a memory storage means (eg flash memory, CD (that preferably may include coupled songs/music videos)) that preferably may be distributed with the coupled music/songs/video means and preferably may be read by means coupled to one at least AMM’s.

0173. c. distributing one at least CEAM’s via one at least WAN’s (eg Internet, Intranet). It is preferable that one at least Personal Closure Control Means may act as a means to facilitate transfer of information between WAN and AMM.

0174. Broadcast Trigger Means (BTM) preferably rely on means coupled to one at least AMM digitising sound produced from the playing of one at least Audio Means (eg a music CD playing on a CD player) and comparing said digitised sound with previously digitised closure opening triggers. Said AMM preferably includes Digital Signal Processing Means.

0175. One at least AMM preferably may handle one at least Time Managed Trigger Means (TMTM) that preferably include a list of one at least times (preferably in reference to an origin of zero) that preferably may be transferred into one at least AMM. It is preferable that when said AMM is instructed to access one at least TMTM it preferably issues signals to influence one at least EGCM’s to open as instructed by said TMTM. It is preferable that one at least TMTM may include other codes to permit the use of different types of TMTM. A non-limiting method of preparing one at least TMTM’s preferably includes listening to audio and/or viewing visual means and preparing a listing of times relative to an origin (eg the start of a song) that it is desired to influence the uncoupling of garments. Non-limiting means for distributing one at least TMTM preferably include one at least of those described for Broadcast Trigger Means. It is preferable that one at least AMM may use BTM and/or TMTM (as a non-limiting example, BTM may be used at the start of a song to trigger the start of TMTM).

0176. It is preferable that one at least first triggers may be differentiated from one at least second triggers and said first preferably may have a first effect (eg influence opening of closures on all participants as a NLE) and said second preferably may have a second effect (eg influence opening of closures on one participant as a NLE).

0177. The invention preferably allows that part at least of the means described for said Audiovisual Management Means 240 may be combined with part at least of the means described for said Party Management Means 242. It is preferable that said Party Management Means 242 and Audiovisual Management Means 240 may be combined in the same device. The invention preferably allows that part at least of the means of one at least PMM may be included in one at least AMM’s.

0178. The next part of the description references FIG. 1a of the drawings that shows preferred non-limiting embodiments of EGCM’s. NLE’s of said EGCM are shown as 1a, 1b and 1c of FIG. 1a of the drawings Said EGCM may be constructed from any means, with the preferred method using plastic (preferably injection moulded), in part at least. It is preferable that one non-limiting function of said EGCM is to couple one at least parts of one at least garments, to one at least other parts of said garment and/or to one at least other garments. Said coupling usual requires the physical association of said coupled parts of the garments(s) with one at least EGCM. In order to allow the garment parts to subsequently open, it is usual for one at least parts of said garment(s) to dissociate from said EGCM and/or for said EGCM to couple, in part at least.

0179. The preferred means of facilitating this objective is to couple one at least EGCM’s (1a, 1b, 1c), to one at least parts of one at least garments (10a, 10b, 10c, 10d, 10e, 10f) by one at least attachment means (2a, 2b, 2c, 6a, 6b).

0180. NLE’s of said attachment means preferably may include one at least of:

0181. 1) Type One Fixed Attachment Means, wherein one at least parts of one at least garment(s) (10a, 10b) are preferably physically coupled to one at least attachment means (2a, 2b), and said attachment means are preferably fixed to one at least EGCM 1a. NLE’s of said attachment means preferably include: a) moulding one at least plastic rings 2a into the case of one at least EGCM 1a and/or b) embedding (eg, during manufacture) one at least metallic rings 2b into the plastic case of one at least EGCM 1a. Said physically coupled preferably refers to means that are not usually readily reversibly detachable. NLE’s of said physical coupled preferably may include the sewing (eg by thread) 3a of part of a garment 10a to said attachment means 2a and/or the coupling by adhesive means (that may include thermal processes) 3b of part of a garment 10b to attachment means 2b. One non-limiting means of permitting said coupled garment parts to separate, may be to have the means of the present invention facilitate the separation of part at least of said EGCM 1a along the line 5, as a NLE. In other embodiments said EGCM 1a may not separate and/or

0182. 2) Type Two Fixed Attachment Means, wherein one at least parts of one at least garments 10c are preferably reversibly physically coupled to one at least attachment means 2c, and said attachment means are preferably fixed to one at least EGCM 1b. NLE’s of said attachment means may include: a) moulding one at least plastic rings 2c into the case of one at least EGCM 1b and/or b) embedding (eg, during manufacture) one at least metallic rings (not shown) into the plastic case of one at least EGCM 1b. Reversibly physically coupled preferably refers to means that are usually reversibly detachable. NLE’s of said reversibly physically coupled may
include a clasp means 7b that preferably may be manually clipped onto said attachment means 2c and subsequently preferably unclipped manually.

and/or

- Type One Reversible Attachment Means, wherein one at least parts of one at least garments (10d, 10f) are preferably physically coupled to one at least attachment means (6a, 6b) and said attachment means (6a, 6b) preferably may be unlinked from one at least EGCM (1b, 1c). Said unlinking is preferably in response to one at least remote and/or automated means. Said attachment means 6a is preferably temporarily coupled to said EGCM 1b. A non-limiting preferred means of said temporarily coupled preferably includes the insertion (in part at least) of one at least attachments (6a, 6b) into one at least attachment receptacle means 8. Said physically coupled preferably refers to means that are not usually readily reversibly detachable. NLE’s of said physical coupled preferably include the sewing (eg by thread) 7a of part of a garment 10d to said attachment means 6a and/or the coupling by adhesive means (that may include thermal processes) 7c of part of a garment 10f to attachment means 6b.

and/or

- Type Two Reversible Attachment Means, wherein one at least parts of one at least garments 10e are preferably reversibly physically coupled to one at least attachment means 6c, and said attachment means 6c preferably may be unlinked from one at least EGCM 1c. Said unlinking is preferably in response to one at least remote and/or automated means. Said attachment means 6c is preferably temporarily coupled to said EGCM 1c. A non-limiting preferred means of said temporarily coupled preferably includes the insertion (in part at least) of one at least attachments 6c into one at least attachment receptacle means 8. Said reversibly physically coupled preferably refers to means that are usually reversibly detachable. NLE’s of said reversibly physically coupled may include a clasp means 7d that preferably may be manually clipped onto said attachment means 6c and subsequently preferably unclipped manually.

and/or

- Type Three Reversible Attachment Means and/or Type Four Reversible Attachment Means (see below).

It is preferably that one at least reversible attachment means includes one at least garment coupling facilitator means (GCFM) 46 to assist coupling of garment means to attachment means. A NLE of said GCFM 46 may include the moulding of an open loop 46 into one pole of one at least reversible attachment means (6a, 6b, 6c). NLE’s of how said GCFM 46 may facilitate coupling may include, as NLE’s, being able to pass part of one at least garments, and/or thread and/or adhesive through said GCFM.

- One at least EGCM preferably includes one at least of:

1. A power on/off means (101). This is preferably an electromechanical switch means that is preferably recessed and/or otherwise protected (eg switch may need to be activated for one at least predetermined periods) to minimise accidental operation. It is preferable that said on/off means (101) may also act as a reset means.

2. Manual release means (180) for manually uncouple reversible attachment means (6) and/or separate one at least EGCM into plural parts (eg along line (5) of EGCM (1a).


4. One at least visible light illumination means (99 (eg LED). This is preferably a bicolour means (eg bicolour LED). As a NLE a flashing LED may indicate that the EGCM has been activated and is functioning. A flashing red LED preferably may indicate to an operator that the EGCM will not be opening in response to remote commands. It is preferable that a green flashing LED indicates that the lock may be responsive to opening commands. It is preferable that a flashing (eg ½ sec flashes) LED may be used to facilitate the time one at least coupled switches are activated (eg on/off switch). Said EGCM is preferably coupled to a Pulsed Illumination Count Means (PICM). As a NLE said illumination means preferably may be a LED (99) of Figure One. Said LED is preferably bi-colour (eg red/green). A red LED (static ON or flashing) preferably indicates that remote access to the coupled closure(s) is blocked. An illuminated green LED (static or pulsing) preferably indicates that access is available. A pulsing green light preferably may be used as a means to identify one at least EGCM’s from a group of EGCM’s coupled to one at least garments. The number of light pulses in a particular period (eg 5 secs) preferably equates to a numeric code for said EGCM (eg the channel number to push on TV remote control as NLE). It is preferable that the start of a particular period is delimited—eg. by two flashes in close proximity. It is preferable that plural PICM’s coupled to one at least garments may be concurrently active. The invention preferably allows for only the PICM’s coupled to the next closure(s) for opening to be active. For EGCM’s that include plural automated closure means (eg plural reversible attachment means) it is preferable that there is an illumination means for each reversible attachment means and each illumination means preferably may output its own preferably unique numeric code. When a garment is provided to a consumer it is preferable that one at least coupled EGCM includes a default PICM Numeric Value. Said numeric value is preferably unique to other EGCM’s coupled to said garment code for that closure(s). Said Numeric Value preferably may be reprogrammed.

5. IRDa interface (detector (100) and emitter (98).

6. Detector (not shown) for infrared TV remote controls (and/or similar AV control means).

7. A conductive means to deliver power and/or ground and/or signals to one at least SEG’ts.

A NLE is preferably conductive means 150 that delivers power and ground. In one preferred embodiment each SEG’t (and/or discreetly activated part of said SEG’t) has its own power conductor and activation of each power conductor activates its coupled target means (eg closure opening, activation of coupled decorative means, activation of coupled LED). In a second embodiment, part at least of the means coupled to conductive means use the Dallas Semiconductors OneWire system for sending power, data and control on a single conductor. One at least SEG’s preferably includes means to respond to said OneWire interface. The Dallas Semiconductor data sheets dealing with OneWire devices are incorporated by reference. Another NLE is preferably conductive means 155 that preferably includes power, ground and one at least known art signal lines to serially address plural coupled means (eg Slave Closure’s)
A decorative means attachment means, a NLE of which preferably includes notches (160) on one side of the EGCM and notches (160a) on the opposite side of the EGCM. It is preferable that notches (160)/(160a) mate with locking means (161)/(161a) of decorative means (170) of FIG. 1a. It is preferable that power may be delivered to said decorative means by interface 165 (preferably coupling with decorative means 170 connector 175), ground on interface 166 (preferably matching 176 on said 170), and one at least signal means (eg 167a, 167b, 167c preferably matching 177a, 177b, 177c on decorative means 170). Those experience in the art preferably should be able to adapt the means of the present invention to provide automated and/or remote controlled means to one at least decorative means, preferably including as a NLE illumination and/or sound functions. Said illumination functions preferably include display means (eg LCD’s) and/or chemical light means. Said sound means preferably include speaker means.

Reference to FIG. 2 of the drawings may assist understanding the next part of the description of the preferred embodiment. It is preferable that one at least EGCM may be any shape. It is preferable that the number of fixed and/or reversible attachment means that may be coupled to one at least EGCM is not limited. It is preferable that the shape and/or design of one at least EGCM is not limited. It is preferable that the number of surfaces of one at least EGCM that attachments may be linked to is not limited. It is preferable that the number that attachments that may be linked to any one at least surface of one at least EGCM is not limited. A preferred NLE of one at least EGCM (1d) is shown in 13d of FIG. 2. Said EGCM (1d) is triangular in shape with a linked attachment means (6a, 6a, 6b) coupled to each side of the triangle.

A non-limiting preferred attachment means of the present invention preferably includes Type Three Reversible Attachment Means, wherein, one at least parts, of one at least garments preferably are coupled to one at least EGCM by a garment restraining means that preferably does not require physical attachment of one at least garment parts to an attachment means.

A preferred NLE of said Type Three Reversible Attachment Means is shown in 13b and 13c of FIG. 2 of the drawings. One at least parts of one at least garments 10f are preferably physically coupled to one at least EGCM 1f that preferably includes one at least receptacle means 8. One at least parts of one at least garments 10g preferably includes an opening 11 (as a NLE, a prior art buttonhole). One at least reversible attachment means 6d are preferably placed through one at least openings 11, preferably by inserting cylindrical means 12 of said attachment means 6d through said openings 11 and preferably temporarily linking said cylindrical means 12 to receptacle means 8. An expanded view of this arrangement is shown in 13b and a cross section view is shown in 13c. It will be appreciated that in the preceding NLE, that the attachment means 6d may be misplaced/lost when it is unlinked from the EGCM 1e. It is preferable that there is an attachment restraining means to prevent said misplacing and/or loss. A non-limiting means is shown in 13c wherein, a thread 14a is coupled at one end to garment part 10g at location 14b, and the other end of the thread is coupled to the attachment means 6d at location 14c. It will be appreciated that the NLE of 13e may be used as a prior art button—the attachment means 6d when linked indirectly to garment part 10f via EGCM 1e may be considered as a button coupled to said garment part 10f; and garment part 10g may be considered the part of a prior art garment held in place by one at least buttons. The garment part 10g preferably may be manually undone by stretching buttonhole 11 over the button (in this case attachment 6d). As a NLE, one at least garments preferably may have a plurality of the arrangement shown in 13c; that preferably may act, in part at least as buttons, and in part at least as the means of the present invention.

A non-limiting preferred attachment means of the present invention preferably includes Type Four Reversible Attachment Means, wherein, one at least parts, of one at least garments preferably are coupled to one at least EGCM by a garment restraining means that preferably does not require physical attachment of one at least garment parts an attachment means and preferably does not require physical attachment of one at least garment parts to one at least EGCM. A preferred NLE of said Type Four Reversible Attachment Means is shown in 13d of FIG. 2 of the drawings. One at least parts of one at least garments 10f and one at least parts of one at least garments 10g preferably includes an opening 11a (as a NLE, prior art buttonholes). One at least reversible attachment means 6d are preferably placed through openings 11a, preferably by inserting cylindrical means 12 of said attachment means 6d through said openings 11a and preferably temporarily linking said cylindrical means 12 to receptacle means 8 (not shown) of EGCM 1. Said EGCM 1 preferably NLE physically coupled the garment. It will be appreciated that in the preceding NLE, that the EGCM 1 may be misplaced/lost when it is unlinked from attachment 6d. It is preferable that there is an EGCM restraining means to prevent said misplacing and/or loss. A non-limiting means is shown in 13d wherein, a thread 15a is coupled at one end to garment part 10f at location 15b and the other end of the thread is coupled to the EGCM at location 15. It will be appreciated that the NLE of 13d may be used as a prior art button.

It is preferable that one non-limiting embodiment of said reversible attachment means may include a plastic (preferably injection moulded) cylindrical means, with an open loop at one end preferably functioning, in part at least, as said GCMM 46.

It is preferable that the removal and/or undoing of one at least garments, in part at least, is facilitated by the unlinking of one at least reversible attachment means from one at least EGCM.

It is preferable that part at least of the means described for one at least EGCM may be coupled to one at least reversible attachment means (NLE’s of which may include (6a, and/or 6b, and/or 6c, and/or 6d). As a NLE, said reversible attachment means preferably may include one at least of the following: power means; electronics; power and/or signal conducting means; mechanical means (eg propulsion means, retaining means); power means recharging means.

Reference to 13e of FIG. 2 shows a NLE of an embodiment wherein said reversible attachment means 6c includes part at least of the means described for one at least EGCM. In this example the cylindrical means 12 of the previous NLE’s is shown as triangular in cross section, as a NLE. The end part 91 of attachment means 6c is preferably able to rotate about the plane 90, preferably around axle 89 that preferably runs along the centre of triangular means 12. A EGCM receptacle means 8 of 13e is shown. In this embodi-
ment receptacle means 8 preferably has a triangular cross
section to accept triangular means 12. Receptacle 8 preferably
has an expanded end 94 that provides space for the preferably
detachable part 91 of attachment means 6 to rotate into a
position that preferably prevents its removal until rotated
back again. Said rotation is preferably facilitated by the
means of the present invention. NLE’s of rotation means
preferably include one at least motor means 93 in one at least
EGCM that drives a shaft means 94, and/or said rotation
preferably may be facilitated by a motor means 88 preferably
within the attachment means 6.

[0205] Reference to FIG. 3 of the drawings may assist
understanding the next part of the description of the preferred
embodiment. It is preferable that one at least EGCM’s may be
coupled to one at least other EGCM, in part at least preferably
via one at least attachment means. Furthermore it is preferable
that one at least said attachment means is flexible, in part
at least. A NLE is shown in 16a of FIG. 3. It is preferable that
one at least reversible attachment means 6 may link to plural
EGCM (1f and 1g, as NLE’s). It is preferable that one at least
attachment means 6 may have one at least points of flexibility
214. It is preferable that said point of flexibility 214 may
include rotation around one at least axes (as NLE’s around
the x-axis 214a and/or the y-axis 214b and/or the z-axis 214c).
It is preferable that the coupling of plural EGCM may include
attachment means wherein one at least points of attachment
is not a reversible means. Block drawing 41 of FIG. 3 shows a
NLE of a functional block diagram of one at least EGCM 1b.
The top surface of said EGCM 1b is referenced as 63. The
front surface is removed to show internal contents. The side
that in this NLE accommodates one at least reversible attach-
ment means 6, is represented by surface 20. The bottom
surface is referenced as 64. The wall of the EGCM is refer-
cenced as 32, and is preferably constructed in part at least
of plastic. One at least parts of one at least grounds 10b are
shown attached to reversible attachment means 6. One at least
parts of one at least grounds 10a are shown attached to a
fixed attachment means. The attachment means 6 is prefer-
cably cylindrical in this embodiment. It is preferable that said
cylindrical has some asymmetry (eg a coupled rectangular
means 214) as shown in cross section in block drawing 40.
Said asymmetry preferably provides a NLE of an alignment
means to facilitate correct alignment when said attachment
means 6 is linked with the receptacle means 8. It is preferable
that the receptacle means 8 has a corresponding means (not
shown) to accommodate said asymmetry. It is preferable that
one at least retaining means 36 is included to preferably
prevent unlinking of one at least reversible attachment means
6. A preferred method is to have the retaining means 36 fit into
a slot and/or hole 216 in the reversible attachment means 6.
It is preferable that one at least EGCM includes one at least
propulsion means that preferably in the process of opening,
propels one at least parts, of one at least grounds and/or
attachments, from one at least: a) EGCM’s, and/or b) parts
of one at least grounds and/or attachments. A NLE of said
propulsion means 22 preferably includes the use of the coiled
spring means located at the end of receptacle means 8. It is
preferable that when attachment means 6 is placed into recep-
tacle means 8 that the spring of said propulsion means 22 is
compressed. It is preferable that when the restraining means
36 is removed from contact with the attachment means 6, that
said spring preferably extends forcibly, preferably propelling
said attachment means 6 in part at least, from said receptacle
means 8, preferably facilitating unlinking of one at least
reversible attachment means. A preferred NLE of a water-
proofing means to protect part at least of the electronics
and/or mechanicals means of one at least EGCM from the
washing/cleaning process, for example, protection against
water and/or solvents; is represented by flexible membrane
means 21. An end view is shown in block drawing 40 of FIG.
3. In this embodiment said membrane is preferably sealed to
the outside wall 20 of one at least EGCM, forming a sac that
preferably isolates the environment and attachment means
from the internal means of one at least EGCM. It is preferable
that said waterproofing means is resilient and it is preferably
of low friction to facilitate insertion/removal of attachment
means 6.

[0206] It is preferable that one at least EGCM includes a
Retention Removal Means (RRM) 23 to facilitate removal of
said retention means 36 from a location that prevents and/or
impairs release of attachment means 6, to a location that
facilitates release of said attachment means 6.

[0207] It is preferable that one at least EGCM includes a
manual release means 38 to facilitate unlinking of one at least
reversible attachment means from one at least EGCM. It is
preferable that said manual means are coupled to one at least
mechanical and/or electronic means. It is preferable that said
manual means is protected from accidental activation. A NLE
of said protection preferably may include recessing said
manual means below the surface of the enclosure of one at least
EGCM.

[0208] It is preferable that activation of said RRM 23 to
facilitate release of said attachment 6, is in response to one at
least control signals 25 and/or power signals 26 that prefer-
ably originate from a control means 24 that is preferably
coupled to one at least EGCM.

[0209] It is preferable that one at least EGCM is coupled to
a power source means. It is preferable said power source is
portable and/or may be recharged. It is preferable said power
source is a battery and/or capacitor and/or light energy means
(e.g., solar cell). It is preferable that said power source is within
the case of said EGCM. It is preferable that the power source
coupled to one at least EGCM may provide power for one at
least second EGCM. It is preferable that when one at least
second EGCM receives power from means coupled to one at
least first EGCM, that said reversible attachment means may
be used to conduct the power and/or signal means.

[0210] A NLE of a power source means 29 is shown in
block drawing 41 of FIG. 3. The power source means is
preferably a battery (e.g., Ni Hydride, Lithium, Rechargeable
Lithium) add/or a capacitor means. It is preferable that a
positive terminal 31 and ground terminal 30 are accessible to
the environment. As a NLE, this may facilitate recharging. It
is preferable that said power source means 29 is coupled to the
control means 24. Said coupled preferably includes a positive
power rail (and/or circuit trace) 27 and a ground rail (and/or
circuit trace) 28.

[0211] It is preferable that one at least EGCM includes an
input and/or output means 35, that preferably interfaces pro-
cessing and/or storage means coupled to control means 24,
with external means. It is preferable that in response to one at
least input means (8) and/or in response to one at least control
means coupled to one at least EGCM, that one at least rever-
sible attached means is unlinked, preferably using propulsion
means 22 to ensure a clean uncoupling.

[0212] Reference to FIG. 4 of the drawings may assist
understanding of the next part of the description. Block draw-
ing 60a of FIG. 4 shows preferred NLE’s of attachment means
and retaining means. Attachment means 6 is shown with a bevel means 51 and a retaining means 36 that includes a matching bevel 52. When attachment means 6 is inserted into receptacle means 8 it is preferable that the beveled arrangement facilitates said insertion. Preferred NLE's of propulsion means are coiled spring 47a and/or lever arm 55 that is tensioned when attachment means 6a is inserted in to receptacle means 8. Block drawing 60b of FIG. 4 shows a preferred NLE of a receptacle means 8 with a polarising slot 6 and an attachment means 6c that includes a corresponding polarising key. Block drawing 60c of FIG. 4 shows a NLE of a preferred means of implementing a Retention Removal Means (RRM) in one at least EGCM.

[0213] It is preferable that there is tensioning means 73, that as a NLE may be a coiled spring means, to assist the retaining means 36 to remain in position to retain one at least reversible attachment means 6. When said attachment means 6 is in place, it is preferable that spring means is extended in part at least, preferably pushing and holding said retaining means 36 in a location to retain said attachment 6. The unlinking of one at least reversible attachment means 6 preferably requires a force to be applied to said retaining means 36 in a direction that preferably frees said attachment means for unlinking. Said force is preferably sufficient to overcome that provided by tensioning means 73 plus any other resistance that may need to be surmounted.

[0214] NLE's of said force preferably may be applied by one at least of the following non-limiting work means:

[0215] a motor driving cogwheel 65 that preferably includes teeth 66 that engage with teeth 67 on retaining means 36;
[0216] an electromagnetic 72 that preferably may be made to apply a magnetic attractive force on a magnetic means 74 (eg, iron);
[0217] manual release means that may include a handle means 79 external to one at least EGCM that is preferably coupled to a release coupling means 71 (eg a plastic rod) via a preferably flexible link 78, that is preferably sealed to a flexible membrane 80 that preferably facilitates waterproofing of said EGCM,
[0218] said force preferably may be applied by pulling handle means 79;
[0219] the known art also describes deformation means 75 that may be made to change shape under the influence of an electric current, some means may contract and others may expand and/or otherwise deform; in the present example 75 is a contractile means coupled to retaining means 36 at location 77 and to an anchor means 76, preferably coupled to the enclosure of said EGCM; passage of current via 75 preferably contracts deformation means 75 applying a force on retaining means 36.
[0220] It is preferable that one at least work means is activated by passage of current through ground/power conductors 68 and 69. Said conductors are preferably coupled to control means 24 and are preferably switched by means coupled to said control means 24. Block drawing 60d of FIG. 4 shows a preferred NLE of a means of protecting manual release handle 79 by recessing 64 the case of the EGCM. The is preferably a snap clip means 81 to hold handle 79 in place. Block drawing 60e of FIG. 4 shows a preferred NLE of said work means referenced as a Micro Steam Engine Means. A fluid (eg water) 85 is preferably sealed 84 in a chamber. It is preferable that current may be passed through conducting means 80. This preferably heats fluid 85 that expands pulling piston 82 out from cylinder 83. Piston 82 preferably exerts a force on retaining means 36 that free the attachment means to unlink, preferably opening the garment closure.

[0221] Reference to FIG. 5 of the drawings may assist understanding of the next part of the description. This shows a detailed picture of the attachment means 6 and receptacle means 8. In this preferred example the waterproofing means 49 preferably is limited to the area over the retaining means. When attachment means 6 is unlinked as shown in block drawing 50a propulsion means 22 (preferably driven by spring means 47) preferably prevents retaining means 36 extending into receptacle means 8. This preferably permits attachment means 6 to be readily inserted into receptacle means 8 as shown in block drawing 50b. When attachment means 6 is inserted retaining means 36 preferably fits into the socket means 45 of attachment means 6. Waterproofing means 49 is preferably reversibly distorted in the process and also pushed into socket 45.

[0222] Reference to FIG. 6 of the drawings may assist understanding of the next part of the description. The input means of block drawing 35 of FIG. 6 preferably include one at least externally supplied signals that are preferably received and/or processed by control means 24. Said externally supplied signal preferably may include, as NLE's, one at least of the following: a) Button switch (eg membrane switch) 101 that preferably generates one at least electrical signal to control means 24 when activated (eg when pressed) (101 preferably may perform the function of a reset means); and/or b) receipt of a radio frequency means via aerial 96; and/or c) receipt of an infrared and or optical signal means preferably by photo detector 100; and/or d) microwave signal (eg received by preferably internal aerial 40); and/or e) receipt of a sound wave by audio input means 103, a preferred example including a microphone means; and/or f) input signal means 107 from one at least coupled decorative means and/or one at least other EGCM, with the preferred means including electrical signals on a conductor means and/or fibreoptic.

[0223] The output means of block drawing 35 of FIG. 6 preferably include one at least means that are preferably generated and/or processed by control means 24 and preferably transmitted to means external to said EGCM. Said externally transmitted means preferably may include, as NLE's, one at least of the following: a) R/F transmitter means 97; and/or b) IR diode means 98; and/or c) optical LED means 99; and/or d) sound generating means 102 (the preferred examples including speaker and piezo means); and/or e) output signal means 104, and/or Power Rails 105, and/or Ground Rails 106 and/or one to at least coupled decorative means and/or one at least other EGCM, with the preferred means including electrical signals on a conductor means and/or fibreoptic.

[0224] NLE of as suitable R/F transceiver preferably may include one at least of: a) the Ultra Low Power CMOS Transceiver from Xemics (the data sheet for this device—the XE 1209 is incorporated by reference); b) Blue Tooth; c) Zigbee; d) 802.11.

[0225] It is preferable that memory storage means coupled to one at least EGCM's include one at least of the following:

[0226] a) ID Means. It is preferable that there is a means to identify one at least EGCM's NLE's may include one at least digital ID means: a) that are unique to said EGCM's; and (or b) that are unique to a group of EGCM's. It is preferable that one at least digital ID means may be modified after manufacture
(eg, by the model and/or third parties). It is preferable that there is one at least means to read and/or otherwise obtain information about said ID means. Said read is preferably by means internal and/or external to said EGCM. Said external preferably may include one at least Personal Closure Control Means and/or a remote means. It is preferable that said unique to a group may be to part at least of the EGCM coupled to one at least garments; and/or to garments in the possession of said model.

0227 It is preferable that said ID Means are stored in Flash Memory. It is preferable that Master Closures include their own ID Means and ID Means of SEGEM’s that they may control.

0228 b) Image Map Means of coupled garment. It is preferable that a picture (eg stored as REG image) of the garment that said EGCM is coupled to is stored in said memory. It is preferable that sufficient information is stored to show said garment from plural perspectives. It is preferable that sufficient information is stored to allow a 3d image of said garment to be constructed on a UCDPM. It is preferable if there is sufficient information stored to allow rotation of said 3d image on said UCDPM. It is preferable that the locations of one at least EGCM’s coupled to said garment are shown on said image. It is preferable that the ID Means of one at least said coupled EGCM’s may be shown on the image.

0229 It is preferable that one at least EGCM’s is coupled to a means to permit information (eg digital data and/or programs) to be read from said EGCM and/or written into said EGCM. The preferred means is to have said data read and/or written by one at least Personal Closure Control Means. As a NLE the preferred method is to have one at least EGCM’s enter a mode after switching the unit on and/or after reset where it waits for an external signal (eg RF and/or IR from a Personal Closure Control Means). Preferably if the said EGCM receives an activation code in this time it will enter a mode where it waits for a EGCM Refresh Command (preferably with time out means) instructing it to further action. As NLE’s said EGCM Refresh Command preferably may request said EGCM to perform one at least of the following: a) provide the data stored in its Real Time Clock Means (RTCM); b) accept new data for said RTCM; c) provide one at least ID Means stored in said EGCM and preferably provide this information sequentially in response to external commands and preferably illuminate the LED coupled to the EGCM matching said ID Means; d) accept one at least ID Means and store it in one at least coupled EGCM’s and preferably receive this information sequentially in response to external commands and preferably illuminate the LED coupled to the EGCM that is allocated to said input ID Means; f) provide part at least of data and/or stored programs to an external means (eg Personal Closure Control Means); g) receive and store data and/or programs from an external means; h) transfer part at least of said Image Map Means to external means; i) receive and/or store part at least of an Image Map Means from an external Means.

0230 It is preferable that said EGCM is coupled to one at least realtime clock and/or calendar means 127. It is preferable that there is a means to provide power to said realtime means. It is preferable that there is a means to read the contents of said realtime means. It is preferable that there is a means to modify the contents of said realtime means.

0231 It is preferable that one at least EGCM’s are coupled to Limiting Means, wherein said limiting means preferably may prevent, and/or restrict, and/or control, and/or condition as a NLE the opening of one at least EGCM’s, preferably until one at least End of Limit Means (ELM) is activated and/or enabled. It is preferable that said ELM may be coupled to said EGCM. It is preferable that said limit means and/or ELM may be coupled to one at least Personal Closure Control Means.

0232 It is preferable that one at least EGCM includes Memory Storage Means, NLE of which preferably include one at least of: flash memory 131, ram 130, battery-backed RAM 129, eeprom (not shown), DRAM 132. Control means 24 preferably includes a microprocessing means.

0233 It is preferable that there is a means 135 to detect when the manual release means has been activated. As a NLE this may trigger one at least EGCM and/or Personal Closure Control Means to output an audible and/or visual response (eg the word ‘jerk’). One non-limiting reason for this may be to encourage uncoupling using said remote means.

0234 It is preferable that there is a limit detect means 134 to detect when the restraining means has reached its limit (this preferably cuts the power to the work means).

0235 It is preferable that there is one at least ELM Reset Means to inactivate and/or disable and/or reset and/or set said ELM, as a NLE. Said ELM reset means is preferably coupled to said EGCM and is preferably activated by means coupled to and/or remote to said EGCM.

0236 Preferred NLE of garments and coupled EGCM’s are described with reference to FIG. 7 of the drawings. Model 250a is shown with Personal Closure Control Means 200. The garment shown is an evening dress that is preferably constructed in part at least of plural EGCM’s 505 that are preferably constructed from a variety of shapes. It is preferable one at least EGCM is a Master Closure and one at least EGCM a Slave Closure. The attachment means 510 preferably form a linking means and in part at least conducting means for power and/or signals. Said EGCM’s 505 and linking means 510 preferably form an integral part of the fabric of part at least of said dress. Said linking means preferably come unlikin under the means described for the present invention.

0237 Model 250b shows a preferred arrangement for lingerie and/or swimming costumes. The bra 290 preferably includes a flap over the right nipple area (501) and/or the left nipple area (500). Said flap(s) preferably may be opened by opening one at least of the three EGCM’s coupled to each flap. The bra 290 preferably includes Master Closure 257 and Slave Closure 268 and 273. The bra is preferably coupled to one at least EGCM and the back (not shown) to facilitate automated removal of the garment. The panties 291 preferably include Master Closure 256 and a front flap 291a that preferably may open with the opening of Slave Closure’s 264a, 264c and 264d. The panties preferably fall away when Master Closure 256 and/or Slave Closure 264a open. It is preferable that the rear of the panties (not shown) includes a flap similar to that the front flap 291a.

0238 A preferred embodiment of a Personal Closure Control Means (Personal Closure Control Means) 200 is now described in further detail with reference to FIG. 8 of the drawings.

0239 It is preferable that the construction of the (Personal Closure Control Means (200) is modular to allow part at least of the means described for said (Personal Closure Control Means to be added after manufacture and/or sale. Said (Personal) Closure Control Means preferably includes a model coupling means 405 to facilitate wearing of said (Personal Closure Control Means by a model. It is preferably con-
It is preferable that one at least commands may be entered said (Personal Closure Control Means using one at least switch means 407). One at least switch means is preferably a reset means. It is preferable that one at least commands may be entered by said microphone means 406. It is preferable that a command menu may be scrolled through using display means 241 and/or a spoken version using speaker means 241. One at least (Personal Closure Control Means 200) preferably includes a GPS means 244 and/or realtime clock means 283. Said (Personal Closure Control Means preferably includes one at least means to communicate with external means. Preferred NLE's include one at least of RF Means 265 (eq 410 bluetooth, (411); 802.11 (412); Zigbee 412; Garage Remote Control Means 413); and/or IR means. NLE's of said IR preferably include one at least of TV RMC IR (400) and/or IrDa 401. Said (Personal Closure Control Means preferably includes an ID Means 417 (preferably unique). Said (Personal Closure Control Means preferably includes CPU and memory storage means. Said (Personal Closure Control Means preferably includes a means (eg mechanical protrusion 244 on end of (Personal Closure Control Means) to facilitate actioning recessed switch means on one at least EGCM's. It is preferable that one at least (Personal Closure Control Means may include one at least of the means described for other parts of the invention. Said (Personal Closure Control Means 200 preferably includes DSP means and preferably may support voice recognition and/or image processing. One at least (Personal Closure Control Means preferably may support one at least of the interface functions to other means described in this specification. Said (Personal Closure Control Means preferably includes data and/or programs to perform the functions described for it in this specification.

0240 It is preferable that one at least (Personal Closure Control Means 400) includes a means to detect I/R in the frequencies commonly used by TV Remote Control Units and/or other AV Control Means. One preferred embodiment would allow an operator (eg the model's boyfriend/girlfriend, and/or the model) to use a TV (and/or other AV) remote control means to remotely open one at least EGCM's coupled to said (Personal Closure Control Means.

0241 The invention preferably allows for the opening of one at least closures by automated means to be in part at least a response to one at least commands and/or other information sent as one at least Information Text String Means (ITSM) sent from a remote means to a target means. NLE's of said target means preferably include one at least EGCM's and/or (Personal Closure Control Means. NLE's of said remote means preferably include a Remote Undressing Means (RUM).

0242 Said ITSM preferably includes alpha and/or numeric indicia. Said indicia are preferably ASCII coded. Said ITSM preferably has a header (eq @%%$@) and an ending sequence (eq %%$@@). The invention preferably allows said ITSM be constructed in part at least from a Standardised Text Library (STL) that preferably includes words and/or phrases preferably used with the means of the present invention. As a NLE it may include part at least of: alphanumeric; yes; no; open; PICM; bra; cup; panties; underpants; 'next closure'; 'skip closure'; 'skip back'; undo; nipple flap; pubic flap; rear flap; top; bottom; left; right; central; closure; selection of colours; diamonds; hearts; pearl; clubs; spades; 'I Love You'; 'game mode'; 'party mode'. It is preferable that the target means (as a NLE), one at least EGCM's and/or one at least Personal Closure Control Means includes and/or may be programmed with part at least of said STL. It is preferable that said STL coupled to said target means may be edited and/or updated. It is preferable that the contents of said STL are under the control of one at least authorised providers.

0243 NLE of said ITSM preferably includes one at least of Positional Description Means and/or Symbolic Description Means and/or Pulsed Count Description Means.

0244 The following NLE may assist understanding the use of ITSM: a model may be wearing a bra that includes a flap covering the left nipple area. Said flap preferably may be held in place by one at least EGCM's. One said EGCM is located in the top left corner of said flap. Said EGCM is coupled to a decorative means that includes two pink coloured hearts. Said EGCM outputs a PICM Numeric Value of three. A NLE of a Positional Description Means may be—'undo top left closure left nipple flap'. A NLE of a Symbolic Description Means may be—'open two pink hearts' somewhat more romantic than the preceding example. A NLE of a Pulsed Count Description Means may be—'open PICM three'.

0245 It is preferable that one at least target means includes and/or is coupled to:

0246 part at least of said Standardised Text Library (STL); and/or

0247 database of one at least automated closure means that said target means may influence (preferably directly and/or indirectly), and preferably the

0248 Positional Description Means and/or Symbolic Description Means and/or Pulsed Count Description Means (collectively referenced as Descriptor Means) relating to said one at least automated closure means, and preferably

0249 the EGCM ID Codes and/or subcodes of said one at least automated closure means, and preferably

0250 a means to cross reference said Descriptor Means with said EGCM ID Codes and/or subcodes;

0251 a means of parsing incoming Descriptor Means from remote means and determining if said incoming information matches information stored in the Target Means Database;

0252 a means of determining if there are Access Limit Means applicable to the granting of opening rights to one at least closure means;

0253 a means of facilitating the opening of one at least closure means.

0254 It is preferable that said ITSM may be constructed in part at least from a Custom Text Library (CTL). It is preferable that said CTL includes a lookup table to cross reference custom text descriptor commands with STL text descriptor commands. For example, the model may want to reference the EGCM of the preceding example (two pink hearts) as the 'magic love button' and it is preferable said lookup table cross references the phrase 'magic love button' with STL created phrase 'two pink hearts'.

0255 It is preferable that said CTL may include one at least questions that a third party may be required to answer in order to gain access to the opening of one at least automated closure means.

0256 It is preferable that said CTL may include one at least answers to said one at least questions.

0257 Said CTL is preferably created and or edited on a personal computer means and/or downloaded in part at least as templates from the Internet. Once created said CTL is preferably copied to one at least target means. The invention
preferably includes a means to copy part at least of a CTL from a User Controlled Data Processing Means (UCDPM) to a Target Means of the present invention. The invention preferably includes a means to transfer a CTL in part at least from said Target Means to a UCDPM for editing.

0258] One at least (Personal Closure Control Means preferably has a microphone input means that as a NLE, preferably may accept voice commands to facilitate the automated opening of one at least closures coupled to garments under the control of said (Personal Control Means) It is preferable that at least (Personal Closure Control Means may accept voice commands to perform one at least utility operations on said (Personal Closure Control Means (eg menu selection, editing, data transfers as NLE’s). It is preferable that there is a means to load said (Personal Closure Control Means with a voice library of at least persons who may issue voice commands (and/or other information). Said voice library preferably includes digitised speech. It is preferable that there is a Standardised Vocal Library (SVL) that preferably includes words and/or phrases commonly used with the means of the present invention. Said SVL preferably includes part at least of the Standardised Text Library. A preferred NLE is for one at least operators to create and/or store part at least of their Personal SVL in one at least Remote Means 247 (preferably with the assistance of a UCDP) and to transfer said Personal SVL to one at least (Personal Closure Control Means. Said (Personal Closure Control Means preferably may reference one at least stored Personal SVL and compare it with subsequent incoming sound means. A preferred NLE to prepare a Personal SVL, is to provide a computer program on a UCDM (preferably including support from the Internet) that displays part at least of the Standard Text Library (STL) and asks the user to speak into a microphone means coupled to said UCDM, the words and/or phrases from said STL that are displayed. The result of this process preferably may be transferred to one at least (Personal Closure Control Means and/or RUM’s. The invention preferably allows for the use of Customised Vocal Libraries (CVL) and the application and/or preparation of Personal CVL’s preferably is similar to that described for SVL’s. Said CVL preferably includes digitised speech representing part at least of one at least Custom Text Libraries. The invention preferably allows that at least (Personal Closure Control Means may receive voice commands in part at least in a digitised format (eg voice commands preprocessed by one at least RUM’s). It is preferable that this may be handled as for direct incoming sound with the exception that part at least of the digitising may already have been performed.

0259] The (Personal Control Means preferably includes a means (eg CPU (210) to process the data sent from said TV remote control means to determine if a valid password was sent, and if valid to allow further remote commands to be accepted. Said CPU (210) is preferably coupled to a non-volatile memory storage means (eg Flash Memory (211)).

0260] The (Personal Control Means preferably includes a means to receive commands to open one at least closures (eg numeric codes and/or up and/or down channel button from said TV remote control means) and preferably includes a means to process this information and preferably includes a means to transmit a command to the relevant EGCMS to open one at least closure.

0261] The invention preferably allows for the coupling of precious metals and/or semiprecious metals and/or precious stones and/or semiprecious stones to one at least garment closures and/or Personal Closure Control Means.

0262] It is preferable that one at least User Controlled Data Processing Means (UCDPM) preferably in conjunction with the Internet may be used to program the closure opening sequence and/or limits placed on said openings. The preferred method is to load an image of at least garments from the coupled electrically operable garment closure using one at least (Personal Control Means to read the data from said closure and to transfer it to said UCDPM. Said image is preferably displayed and preferably may be rotated. Closures coupled to said garment(s) are preferably shown and at least one closure is preferably shown coupled to a means that preferably permits one at least limits to be applied. Examples of said limits preferably may include one at least of (a) the time of opening; (b) geographic locations of opening; (c) responses required from an operator to permit opening; and (d) the number of events that must take place for opening to occur (eg a song may be required to sing the phrase ‘strip your booties’ 5 times prior to one at least closures opening). The actual control is preferably in part at least by one at least Personal Control Means (Personal Control Means coupled to said closures. After the garment(s) openings are suitably programmed on said UCDPM, the resultant control information is preferably transferred to one at least Personal Control Means. It is preferable that one at least UCDM and/or Internet connections may be used to create garment image means for subsequent transfer to one at least electrically operable closures.

0263] A preferred device for operating one or more closures of the present invention is the use of a RUM that includes a portable electronic display and preferably includes at least one of: a) a touch sensitive display or b) digital imaging means. As a non-limiting example the Apple iPhone (TM Apple Computers) or mobile Phones based on the Google Android Operating System may provide the display and or touch sensitive display and or imaging means. In one example embodiment it is preferable that the RUM is arranged for capturing an image of a person wearing one at least garments each coupled to at least one electrically operable closure. The RUM is preferably arranged for displaying an image of part at least of the captured garment(s) and or the garment wearer. The RUM is preferably arranged for indicating the spatial arrangement of the closures relative to the wearer and or the garment and or one at least other closures. The display preferably may input and or output other information disclosed in this specification. The RUM is preferably arranged to respond to a touch input signal related to one at least displayed (and or other wise indicated) closures. A non-limiting example of said touch input response is to enable and or facilitate the opening of the related closure on the actual garment.

0264] It is understood that variations in the figures or described elsewhere in this specification are for illustrative purposes only and that many other variations will be apparent to one skilled in the art. It will also be understood that the specification and figures are illustrative of the present invention and that other embodiments within the spirit and scope of the invention will suggest themselves to those skilled in the art.
1: An electrically operable garment closure wherein opening of said closure depends on one at least of:
   a) the processing of digitally acquired imagery,
   b) the electronic display of menu, graphics or picture information related to the garment closure,
   c) the processing of information automatically acquired during a board game, card game or a game of chance.
2: The electrically operable garment closure of claim 1 further comprising optically encoded information for identifying the garment closure.
3: The electrically operable garment closure of claim 2 wherein said optical comprises one at least of visible, ultraviolet and or infrared.
4: The electrically operable garment closure of claim 2 wherein said encoded information is a pulsed illumination count.
5: The electrically operable garment closure of claim 1 wherein said displayed information related to the closure comprises one at least of:
   a) representation of a garment associated with the closure,
   b) location of the closure relative to the garment,
   c) location of the closure relative to another closure,
   d) identifying information for the closure,
   e) a condition applied for the opening of the closure.
6: The electrically operable garment closure of claim 5 wherein said representation of the garment includes one at least of:
   a) 3d image of the garment,
   b) rotatable view of the garment.
7: An electrically operable device for use in opening an electrically operable garment closure wherein said device is particularly arranged to facilitates one at least of:
   a) the processing of digitally acquired imagery for use in operation of the closure,
   b) the electronic display of menu, graphics or picture information related to the garment closure,
   c) the processing of information automatically acquired during a board game, card game or a game of chance.
8: The electrically operable device of claim 7 wherein said device provides the function of a mobile phone and one at least of:
   a) digital imaging,
   b) touch sensitive display.
9: The electrically operable device of claim 7 further comprising optically encoded information for identifying the garment closure.
10: The electrically operable device of claim 9 wherein said optical comprises one at least of visible, ultraviolet and or infrared.
11: The electrically operable device of claim 9 wherein said encoded information is a pulsed illumination count.
12: The electrically operable device of claim 7 wherein said displayed information related to the closure comprises one at least of:
   a) representation of a garment associated with the closure,
   b) location of the closure relative to the garment,
   c) location of the closure relative to another closure,
   d) identifying information for the closure,
   e) a condition applied for the opening of the closure.
13: The electrically operable garment closure of claim 12 wherein said representation of the garment includes one at least of:
   a) 3d image of the garment,
   b) rotatable view of the garment.
14: A garment particularly arranged for use with one at least electrically operable closures wherein opening of the closure is a response to one at least of:
   a) the processing of digitally acquired imagery,
   b) the electronic display of menu, graphics or picture information related to the garment closure,
   c) the processing of information automatically acquired during a board game, card game or a game of chance.
15: The garment of claim 14 wherein said device provides the function of a mobile phone and one at least of:
   a) digital imaging,
   b) touch sensitive display.
16: The garment of claim 14 further comprising optically encoded information for identifying the garment closure.
17: The garment of claim 16 wherein said optical comprises one at least of visible, ultraviolet and or infrared.
18: The garment of claim 16 wherein said encoded information is a pulsed illumination count.
19: The garment of claim 14 wherein said displayed information related to the closure comprises one at least of:
   a) representation of a garment associated with the closure,
   b) location of the closure relative to the garment,
   c) location of the closure relative to another closure,
   d) identifying information for the closure,
   e) a condition applied for the opening of the closure.
20: The garment of claim 19 wherein said representation of the garment includes one at least of:
   a) 3d image of the garment,
   b) rotatable view of the garment.