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(54) **LINGERIE-ATTACHED HUMAN AROUSAL INDICATOR**

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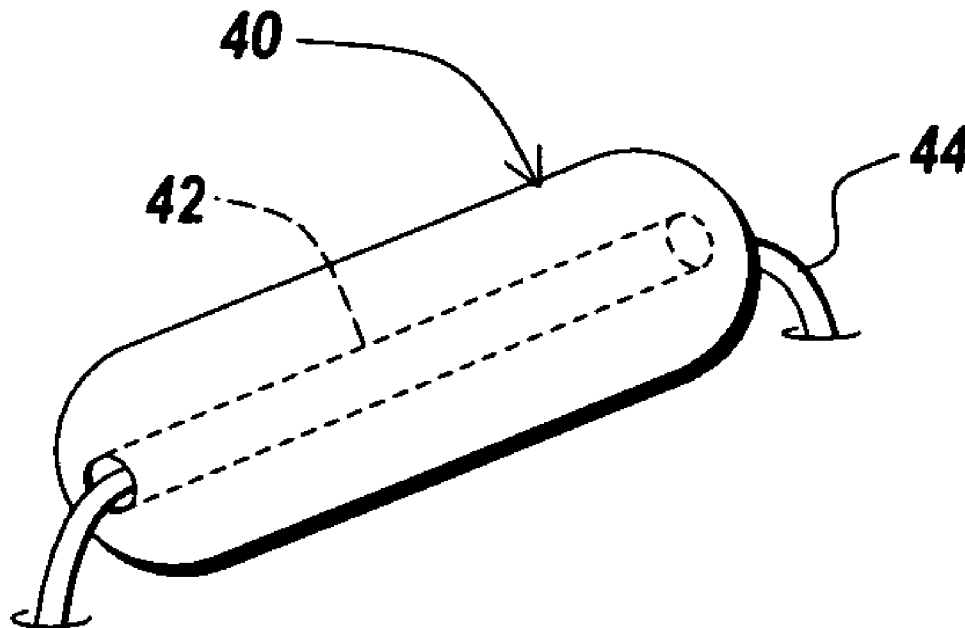
(57) **ABSTRACT**

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Temperature-sensitive mood stones or beads are incorporated into lingerie at positions that indicate sexual arousal to indicate by observation the state of arousal of the individual wearing the lingerie. In one embodiment, the mood beads are located adjacent the groin area for women's panties and at various erogenous zones of a brassiere, including cups and straps.

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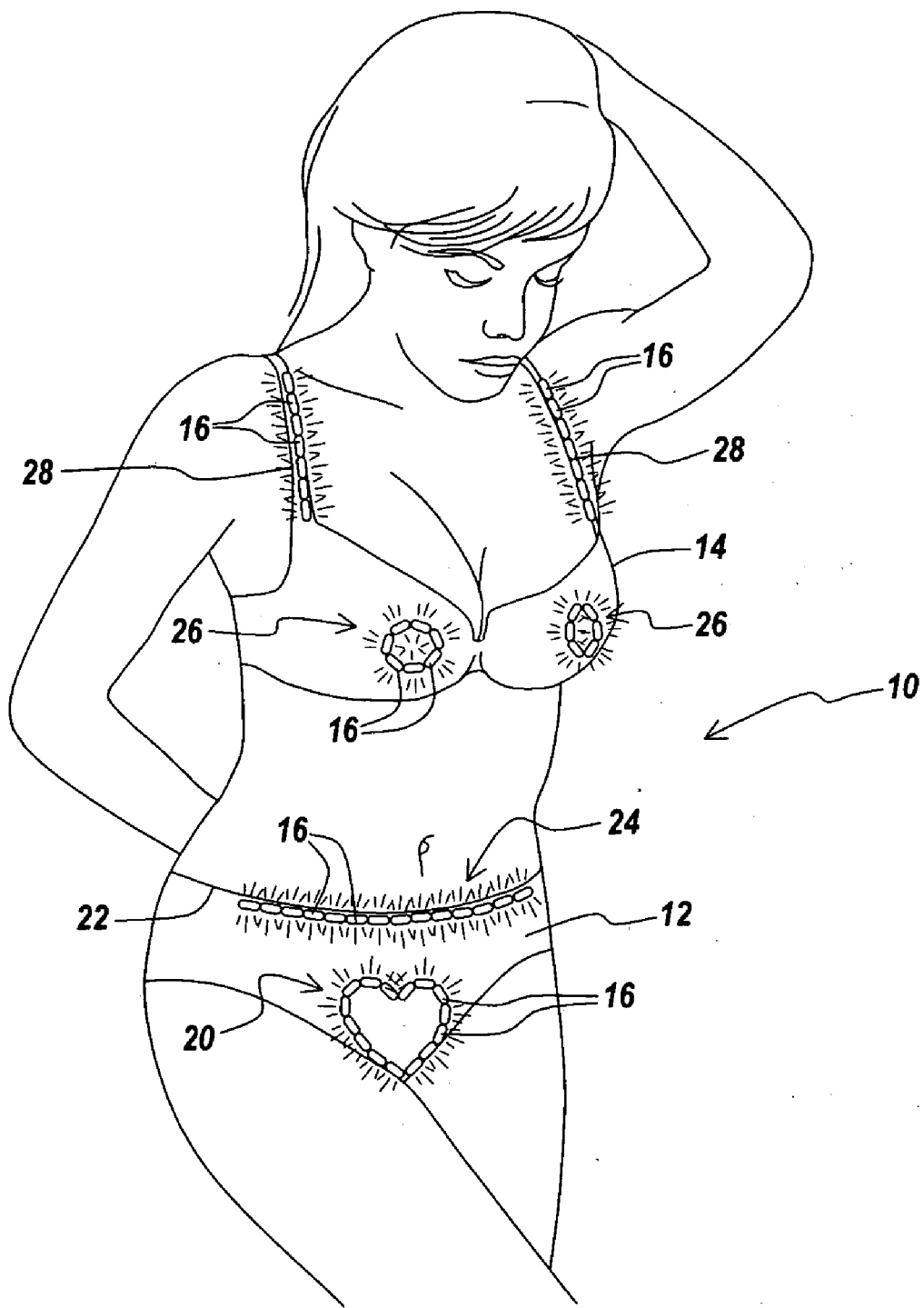


Fig. 1

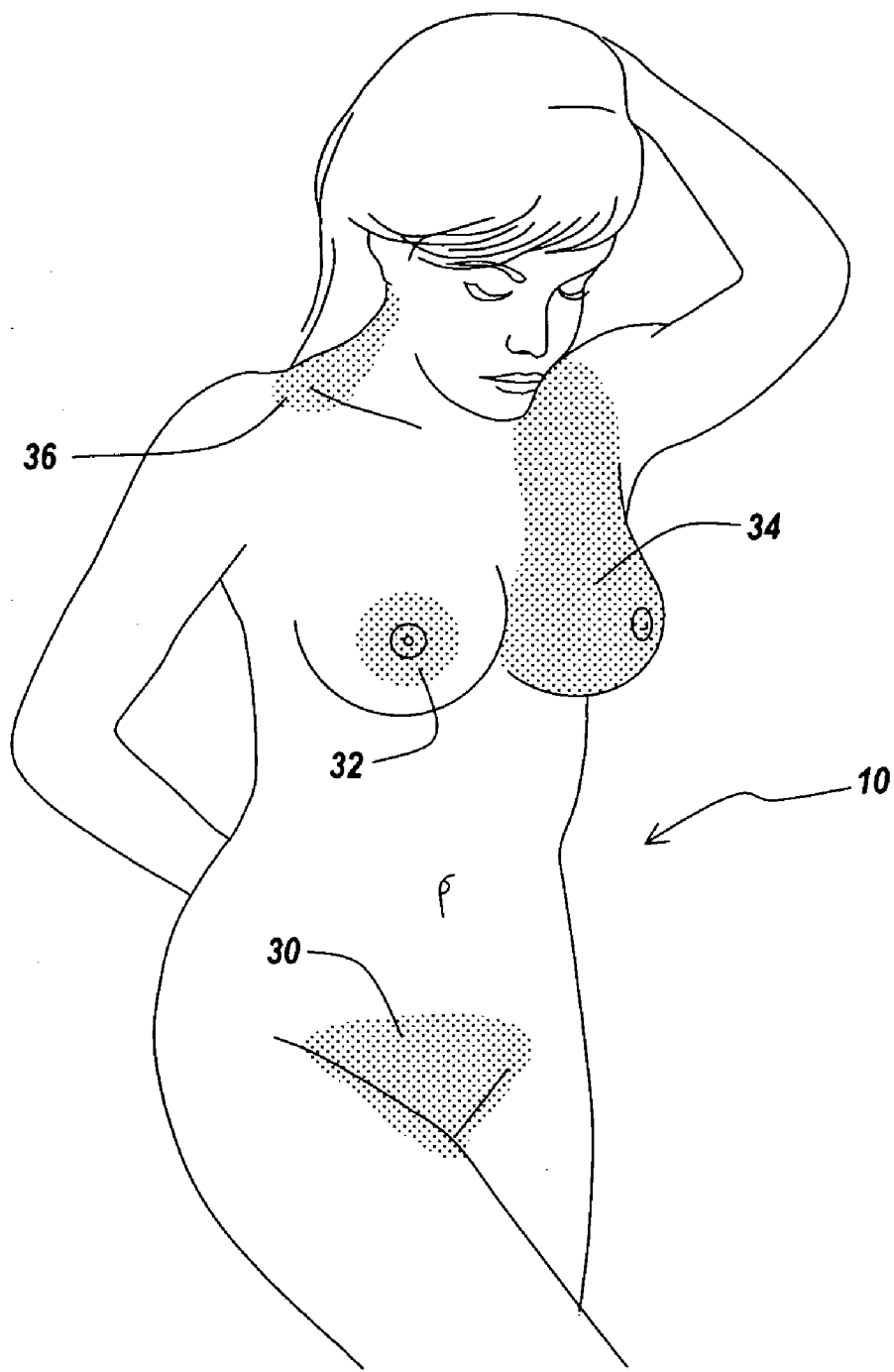


Fig. 2

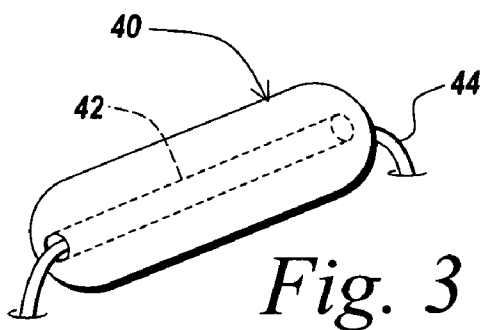


Fig. 3

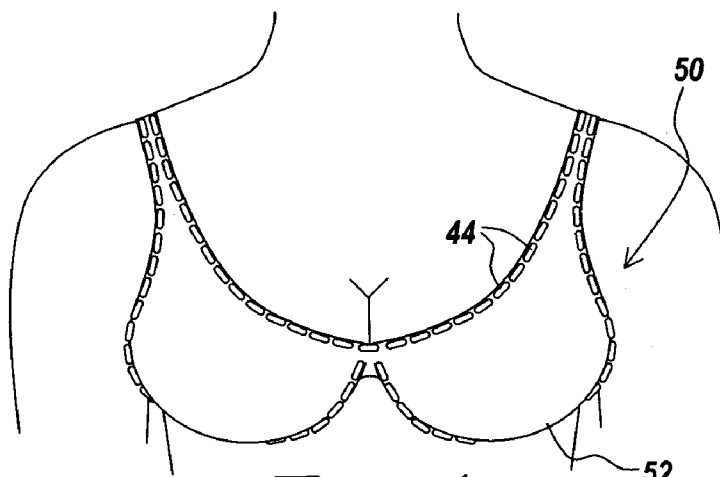


Fig. 4

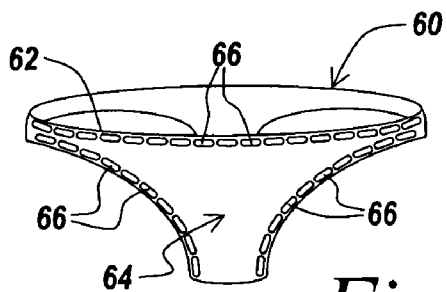


Fig. 5

LINGERIE-ATTACHED HUMAN AROUSAL INDICATOR

FIELD OF THE INVENTION

[0001] This invention relates to human arousal indicators and more particularly to a lingerie-attached mood stone or bead for indicating human arousal.

BACKGROUND OF THE INVENTION

[0002] So-called mood stones or mood beads have been provided in rings and jewelry as illustrated in U.S. Pat. No. 5,813,766, and in a dog collar as illustrated in U.S. Pat. No. 6,675,744. These mood beads or stones change color in accordance with sensed temperature and are said to provide a measure of the health of the dog or some emotional status of the individual wearing, for instance, a mood ring.

[0003] It will be appreciated that the region of the human anatomy that carries jewelry measures skin temperature, at least for finger rings, a portion of the human anatomy not normally associated with sexual arousal.

[0004] With respect to animals and more particularly dogs, there is no apparent correlation between the color of the mood stones in the dog collar and the arousal of the animal.

[0005] It is known that health of a human or animal is implicated by skin temperature, which for instance can indicate whether the animal or individual is experiencing a higher-than-normal temperature that would indicate a fever.

[0006] However, in the past there has been no reported correlation between skin temperature at an erogenous zone and sexual arousal, much less a visible indicator of increased temperature at the erogenous zone.

[0007] In short, so-called mood rings and mood stones have heretofore not been utilized to sense a human physiologic arousal condition that can be made readily visible to a participant in sex play. While in the past, medical sensing devices have included skin-carried temperature sensing devices, these devices are coupled to monitoring apparatus, which have displays remote from the sensing site. Thus, such temperature-sensing systems are not conveniently worn and do not display changes in temperature directly at the sensing site, much less at an erogenous zone.

[0008] In terms of human physiology, female sexual arousal has been found to manifest through a color change in the labia. However, such color change is not readily observable from a distance. Moreover, while vaginal moistness is a sign of female sexual arousal, this, too, is not readily viewable.

SUMMARY OF INVENTION

[0009] It is the purpose of the subject invention to provide a visual indication of human sexual arousal at a distance from those parts of the human anatomy that respond to sexual stimulation. More particularly, lingerie is provided with mood beads or stones that change color upon detected skin temperature, with the mood beads or stones being incorporated into women's panties, especially in the crotch area, or in brassieres, either in the cup or within the straps.

[0010] It has been found that arousal causes a change in color in these beads that corresponds to changes in tempera-

ture at erogenous zones, thus to indicate to a woman's partner her state of arousal at a distance.

[0011] In so doing, a woman wearing such undergarments can telegraph her state of readiness for sexual activities to give her partner an advance indication of her readiness.

[0012] The subject lingerie can be provided not only for recreational purposes, but can also be used for sexual training as well as a measurement of human sexual response.

[0013] In summary, temperature-sensitive mood stones or beads are incorporated into lingerie at positions that indicate sexual arousal to indicate by observation the state of arousal of the individual wearing the lingerie. In one embodiment, the mood beads are located adjacent the groin area for women's panties and on a brassiere, most notably at a cup or on a strap.

BRIEF DESCRIPTION OF THE DRAWINGS

[0014] These and other features of the subject invention will be better understood in connection with the Detailed Description, in conjunction with the Drawings, of which:

[0015] FIG. 1 is a diagrammatic illustration of lingerie-attached arousal indicators affixed to undergarments that overlie erogenous zones, with mood stones or beads being affixed to the undergarment at those locations at which arousal can be sensed;

[0016] FIG. 2 is a diagrammatic illustration of arousal zones on a female torso indicating arousal zones at the crotch area, at the breasts and along the neck of the individual;

[0017] FIG. 3 is a diagrammatic illustration of a mood stone or bead in the form of an elongated cylinder having an internal channel adapted to receive a thread for sewing of the bead onto an undergarment;

[0018] FIG. 4 is a diagrammatic illustration of a brassiere with mood stones or beads sewn about the periphery of the brassiere including along the bra strap and the underside of the cup as well as along the top edge of the bra; and,

[0019] FIG. 5 is a diagrammatic illustration of a panty with mood stones or beads affixed to the edging thereof.

DETAILED DESCRIPTION

[0020] Referring now to FIG. 1, a female individual 10 is shown wearing undergarments in the form of panties 12 and a brassiere 14 in which the undergarments are provided with mood stones or beads 16 in various configurations on the undergarment.

[0021] More particularly, with respect to panty 12, the mood stones or beads 16 may be affixed to the crotch area in the form of a heart 20 or other pleasing configuration, whereas the top edge 22 of panty 12 may be provided with a belt-like arrangement of beads 24.

[0022] With respect to brassiere 14, areas around the nipples may be provided with mood stones or beads as illustrated at 26, whereas bra straps 28 may also be provided with a string of mood stones or beads.

[0023] The lingerie thus provided with mood stones or beads at erogenous zones will turn color indicating the

arousal of the individual, which beadlike indicators are viewable from a distance to indicate to the person's partner her state of arousal.

[0024] Referring to FIG. 2, individual 10 is shown to have a number of erogenous zones 30, 32, 34 and 36, which zones increase in temperature upon arousal. The increase in temperature is sensed by mood stones or beads adjacent the erogenous zones and thus are an accurate indicator of arousal state.

[0025] Lingerie that is provided with such arousal indicators is useful not only in sex play but also for instructional purposes, since the state of arousal can be ascertained not only at close quarters but rather even across the room.

[0026] It is also interesting to note that while female individuals are known to fake a state of arousal, it is very difficult to fake the arousal to the extent of causing the beads to turn color when the individual is not actually aroused.

[0027] Referring to FIG. 3, an individual mood stone or bead 40 is made of material that changes color in response to changes in temperature at the bead. Materials useful for mood stones or beads include cholesteric liquid crystals, which are generally long molecules with a stiff center consisting of two or more ring structures. On one end is a hydrocarbon chain, with the other being a polar or non-polar head group. Mood stones or encapsulated artificial stones containing cholesteric liquid crystals have the ability to change color based on the parallel arrangement of the molecules that form thin layers in the crystal. Cholesteric liquid crystals can be aligned in different ways by change in temperature. As the temperature increases, the molecules are said to tighten or twist, therefore defining the wavelength of visible light reflected from the crystal, changing the color of the mood stone. In general the color of the mood stone will range from black to brown to green to blue-green and then to blue, depending on the temperature.

[0028] As shown in U.S. Pat. No. 4,220,011, in one embodiment the heat-sensitive color change bead or stone may include a heat sensitive back plate in which the jewel is made of clear polyester-type S material having a temperature-color sensitive range from about 80° F. to about 90° F. It is noted that the polyester-type S material changes color from black through a gray through a yellow through a green through a blue-green through a blue to a dark blue, with black being the color of the bead with the least amount of heat transfer. The following describes the mood of a person depending on the color of the polyester-type S material: black: frigid; gray: irritable; yellow: melancholy; green: cuddly; blue-green: amorous; blue: sensuous; dark blue: passionate. Anything from green to dark blue would indicate a state of arousal, with the color indicative of the arousal intensity.

[0029] The mood stone or bead may also be as illustrated in U.S. Pat. No. 3,802,945. In this patent, liquid crystal material has iridescent qualities that effect variations in coloration of the device upon application of different temperatures. In this patent the color-changing device encapsulates droplets of crystalline material in a transparent body in such a way that the individually encapsulated droplets of crystalline material will be responsive to variations in temperature to affect the iridescence thereof. In one embodiment, a hollow body of polyester, acrylic or other synthetic

transparent material is used to receive the encapsulated droplets of crystalline material either in non-oriented bulk form or in the form of oriented layers or strips.

[0030] In other embodiments the mood stone can be in the form of a liquid crystal display that is activated by temperature, in which a thermal sensor senses the temperature and causes the liquid crystal display to change its characteristics to indicate the sensed temperature.

[0031] Thermally activated temperature indicators are also described in U.S. Pat. No. 4,428,321 that involves an opaque microporous sheet that has a colored stratum in the back and a transparent fusible coating on the face. The coating is a solid solution of amorphous rubbery polymer in crystallizable solvent, which upon melting gradually penetrates and transparentizes the microporous layer, rendering the colored stratum visible.

[0032] Another temperature indicating device is shown in U.S. Pat. No. 3,065,083, which is a two-compartment envelope containing a colorless indicator dye separated from a solid fatty acid by a fat-soluble isobutylene styrene barrier film. When the envelope is heated to a sufficiently high temperature, the acid melts, slowly dissolving the film, and acts with the indicator dye, causing a color change.

[0033] Currently, mood stones are available commercially as Model No. BDM 0001 from Cyter Import Ltd. of Beijing, China.

[0034] As can be seen in FIG. 3, the mood stone is provided with an internal channel 32 through which a thread or string 34 may pass so that the bead or stone may be affixed to the undergarment by simple sewing.

[0035] Referring to FIG. 4, a brassiere 50 has edging 52 to which mood stones or beads 54 are attached. The edging provides a simple place to put the mood stones, since the mood stones will not interfere with the comfort of the brassiere.

[0036] Likewise and referring to FIG. 5, a panty 60 has edging 62 to the front 64 thereof in which mood stones or beads 66 are attached to the edging.

[0037] Regardless of the configuration of the mood stones or beads on the undergarment, and regardless of the operation by which the mood stones or beads change color, the change of color when the mood stones or beads are placed adjacent an erogenous zone give a visible arousal indication, unlike visually undetectable indicators of an aroused state.

[0038] While the subject invention has been described in connection with indications of female arousal, it will be appreciated that it is within the scope of the subject invention to place mood stones or mood beads on undergarments worn by males.

[0039] While the present invention has been described in connection with the preferred embodiments of the various figures, it is to be understood that other similar embodiments may be used or modifications or additions may be made to the described embodiment for performing the same function of the present invention without deviating therefrom. Therefore, the present invention should not be limited to any single embodiment, but rather construed in breadth and scope in accordance with the recitation of the appended claims.

What is claimed is:

1. A method for indicating human sexual arousal, comprising the steps of:

locating mood stones on underwear such that the mood stones are adjacent erogenous zones when the underwear is in place; and,

wearing the underwear in sight of an individual to be alerted to the wearer's arousal state.

2. The method of claim 1, wherein the underwear includes panties and wherein the mood stones are located at the crotch area of the panties.

3. The method of claim 1, wherein the underwear includes panties and wherein the mood stones are located at the top edge of the panties.

4. The method of claim 1, wherein the underwear includes panties and wherein the mood stones are located along the edging of the panties at the crotch thereof.

5. The method of claim 1, wherein the underwear includes a brassiere and wherein the mood stones are located at the bra strap of the brassiere.

6. The method of claim 1, wherein the underwear includes a brassiere and wherein the mood stones are located on the cup of the brassiere.

7. The method of claim 1, wherein the underwear includes a brassiere and wherein the mood stones are located along an edge of the brassiere.

8. The method of claim 1 wherein the mood stone changes color to indicate arousal.

9. The method of claim 8 wherein the color change goes from a black to a green-blue hue to indicate arousal.

10. Apparatus for indication of human arousal, comprising:

an undergarment; and,

a temperature-sensitive color change object placed on the undergarment and viewable from outside the undergarment such that when the undergarment is worn human

arousal creates heat at the color change object to change the color thereof, whereby arousal is indicated by color change of the object on the undergarment.

11. The apparatus of claim 10, wherein said undergarment includes panties and wherein said color change object is located at the crotch area of said panties.

12. The apparatus of claim 10, wherein said undergarment includes panties and wherein said color change object is located along an edge of said panties.

13. The apparatus of claim 12, wherein said edge includes the top edge of said panties.

14. The apparatus of claim 12, wherein the edge of said panties includes edging around the crotch area of said panties.

15. The apparatus of claim 10 wherein said undergarment includes a brassiere and wherein said color change object is carried on the cup of said brassiere such that said object is visible from outside the cup of said brassiere.

16. The apparatus of claim 10 wherein said undergarment is a brassiere and wherein said color change object is located on a strap of said brassiere.

17. The apparatus of claim 10 wherein said undergarment is a brassiere having straps and wherein said color change object is located on the edging of said brassiere.

18. A method of indicating arousal of a human female in a manner in which arousal cannot be faked, comprising the steps of:

locating a mood stone on an undergarment such that the mood stone is adjacent an erogenous zone of said female when worn; and,

wearing said undergarment such that said mood stone lies adjacent said erogenous zone and is visible at a distance thereof to ascertain the color of said mood stone, whereby only unfaked true arousal of said female is indicated.

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