

DESCRIPTION

TITLE OF INVENTION: DEFORMABLE CUSHION WITH MASSAGE FUNCTION

TECHNICAL FIELD

[0001] The present invention relates to a deformable cushion that changes in shape according to the posture of a user, that has a massage function, and that can be used with its cushion body easily deformed and kept in a desired shape.

BACKGROUND ART

[0002] A variety of cushions deformable into shapes conforming to the figure or posture of a user, typified by body pillows, have been commercially available to date.

[0003] For example, Patent Literature 1 discloses a freely-foldable body cushion comprising a rodlike cushion part loaded with stuffing materials in an amount that allows free stuffing movement while leaving a void space within the rodlike cushion part.

PRIOR ART REFERENCE

CITATION LIST

[0004]

Patent Literature 1: Japanese Unexamined Patent
Publication JP-A 2001-190384

SUMMARY OF INVENTION

TECHNICAL PROBLEM

[0005]

The body pillows, body cushions, and deformable cushions as disclosed in Patent Literature 1 can be deformed into shapes conforming to the body of a user, and thus serve as very comfortable cushions.

[0006] User's diverse needs for massage devices recently include demands for massage devices that, unlike massagers designed to massage a user sitting in a chair such as conventional chair-type massagers, allow a user to receive massage in a comfortable position such as a position reclining on a body pillow.

[0007] In view of the above circumstances and market needs, it is an object of the present invention to provide a massage function-equipped deformable cushion that allows a user to receive massage not in a position sitting in a chair, but in a comfortable position such as a position reclining on a body pillow.

[0008] Moreover, commercially available deformable cushions, such as body pillows, change shape on their own so as to conform to the body of a user. However comfortable such a deformable cushion, it has recently been desired to produce greater relaxing effect. In order to meet such a user need, discussions have been made to come up with value-added deformable cushions, for example, a deformable cushion that, in addition to being capable of spontaneously deforming into a shape conforming to user's body as has been conventional, can be used

in various forms suited to user needs, including the form of a chair, simply by deforming and keeping the cushion body in the desired shape.

[0009] In view of the above circumstances and market needs, it is an object of the present invention to provide a deformable cushion capable of spontaneously deforming into a shape conforming to user's body, in which the cushion body can be easily deformed and kept in a shape that allows a user to use the cushion in a more comfortable position with even greater relaxing effect.

SOLUTION TO PROBLEM

[0010] To solve the above challenge, the massage function-equipped deformable cushion embodying the present invention adopts the following technical means.

[0011] That is, the invention provides a massage function-equipped deformable cushion comprising a cushion body, in which free-flowing content is enclosed, configured to deform into a shape conforming to a figure or posture of a user, and a massage mechanism, mounted to the cushion body, for giving the user massage.

[0012] In the invention, it is preferable that the cushion body includes a bag body that can be loaded with the content, and that the content is enclosed in the bag body in an amount that leaves a space part inside the bag body.

[0013] In the invention, it is preferable that the massage mechanism includes a treatment element to give the user massage.

[0014] In the invention, it is preferable that a light emitter is disposed within the treatment element or in an area adjacent to the treatment element.

[0015] In the invention, it is preferable that a case body is disposed inside the cushion body, and that driving equipment is disposed within the case body to drive the massage mechanism.

[0016] In the invention, it is preferable that a light emitter is disposed on a surface of the case body.

[0017] In the invention, it is preferable that a cover cushion to cover the massage mechanism is mountable on the cushion so as to be located between the massage mechanism and the user.

[0018] Moreover, to solve the above challenge, the massage function-equipped deformable cushion embodying the present invention adopts the following technical means.

[0019] That is, the invention provides a massage function-equipped deformable cushion comprising a cushion body, in which free-flowing content is enclosed, configured to deform into a shape conforming to a figure or posture of a user, and a mechanical massage mechanism, mounted to the cushion body, for giving the user massage. The cushion body includes a bag body, and bead bodies which are enclosed as the content in the bag body. The bag body includes a first bag body dimensioned to be sufficiently large to receive the buttocks of the user. The massage mechanism is disposed at the first bag body.

[0020] The invention also provides a massage

function-equipped deformable cushion comprising a cushion body, in which free-flowing content is enclosed, configured to deform into a shape conforming to a figure or posture of a user, and a mechanical massage mechanism, mounted to the cushion body, for giving the user massage. The cushion body includes a bag body, and bead bodies which are enclosed as the content in the bag body. The bag body includes a first bag body dimensioned to be sufficiently large to receive the buttocks of the user, and a second bag body configured to extend backward from the first bag body in communication with the first bag body. The massage mechanism is disposed at the first bag body and/or the second bag body.

[0021] In the invention, it is preferable that the massage mechanism can be adjusted in position relative to the user by varying the shape of the cushion body with movement of the bead bodies within the first bag body.

[0022] In the invention, it is preferable that the massage mechanism can be adjusted in position relative to the user by varying the shape of the cushion body with movement of the bead bodies within the first bag body and/or within the second bag body.

[0023] In the invention, it is preferable that the degree of inclination of the second bag body with respect to the first bag body can be adjusted by varying the density, expressed differently, the degree of aggregation, of the bead bodies within

the second bag body.

[0024] In the invention, it is preferable that a massaging force from the massage mechanism can be adjusted by varying the density of the bead bodies within the first bag body.

[0025] In the invention, it is preferable that a massaging force from the massage mechanism can be adjusted by varying the density of the bead bodies within the first bag body and/or within the second bag body.

[0026] In the invention, it is preferable that the massage mechanism includes an arm member provided at the tip with a treatment element, a driver to output a rotational driving force, a rotating shaft to rotate under the outputted rotational driving force, and a rock converter to convert the rotation of the rotating shaft into rocking motion to rock the arm member in a manner to enable the treatment element to effect at least kneading massage operation.

[0027] In the invention, it is preferable that a light emitter is incorporated in the treatment element.

[0028] Moreover, to solve the above challenge, the massage function-equipped deformable cushion embodying the present invention adopts the following technical means.

[0029] That is, the invention provides a massage function-equipped deformable cushion comprising a cushion body, in which free-flowing content is enclosed, configured to deform into a shape conforming to a figure or posture of a user, and

an air bag, mounted to the cushion body, for giving the user pressing massage. The cushion body includes a bag body, and bead bodies which are enclosed as the content in the bag body. The bag body includes a first bag body dimensioned to be sufficiently large to receive the buttocks of the user, a third bag body provided at one side of the first bag body in a lateral direction, the third bag body being configured to extend in one direction in communication with the first bag body, and a fourth bag body provided at the other side of the first bag body in the lateral direction, the fourth bag body being configured to extend in the other direction in communication with the first bag body. The third bag body and the fourth bag body are opposed to each other. The air bag is disposed at the third bag body and/or the fourth bag body.

[0030] In the invention, it is preferable that a space part of the first bag body and a space part of the third bag body communicate with each other, and the space part of the first bag body and a space part of the fourth bag body communicate with each other, and that, when a load is applied to the first bag body, portions of the bead bodies lying in the space part of the first bag body move to the space part of the third bag body and to the space part of the fourth bag body, thus causing each of the third bag body and the fourth bag body to change in shape so as to extend outward in the lateral direction in an upwardly rising state.

[0031] In the invention, it is preferable that the third bag body and the fourth bag body, when extending outward in the lateral direction in the upwardly rising state, hold the buttocks of the user situated on the first bag body in between.

[0032] In the invention, it is preferable that the air bag of the third bag body and the air bag of the fourth bag body, when inflated simultaneously, laterally hold the buttocks of the user in between.

[0033] In the invention, it is preferable that, to make the cushion serviceable to persons of varying body sizes, ranging from those of large build to those of small build, dimensions of the third bag body and the fourth bag body and/or a distance between the third bag body and the fourth bag body in a width direction are/is determined in accordance with a body size of a user having a small build.

[0034] In the invention, it is preferable that the first bag body is provided with the air bag.

[0035] In the invention, it is preferable that a second bag body is provided so as to extend backward from the first bag body in communication with the first bag body, that the space part of the first bag body and a space part of the second bag body communicate with each other, and that, when a load is applied to the first bag body, portions of the bead bodies lying in the space part of the first bag body move to the space part of the second bag body, thus causing the second bag body to change in

shape so as to extend backward in an upwardly rising state.

[0036] In the invention, it is preferable that the second bag body is provided with the air bag.

[0037] Moreover, to solve the above challenge, the present invention adopts the following technical means.

[0038] That is, the invention provides a deformable cushion, in which free-flowing content, or specifically bead bodies are enclosed, configured to deform into a shape conforming to a figure or posture of a user. The deformable cushion comprises a cushion body comprising a bag body loaded with the content. The cushion body includes a restraining member to restrain movement of the content by partitioning the bag body into at least two or more bag body segments.

[0039] In the invention, it is preferable that the restraining member includes a first restraining member to restrain movement of the content by partitioning the bag body into a first bag body and a second bag body.

[0040] In the invention, it is preferable that the first bag body is turned to a seat part on which the user can sit down by using the first restraining member, and that the second bag body is shaped into a desired form and allowed to lie in a standing position toward the rear with respect to the first bag body by using the first restraining member.

[0041] In the invention, it is preferable that the restraining member includes a second restraining member to

restrain movement of the content by partitioning the bag body into a first bag body and a third bag body.

[0042] In the invention, it is preferable that the first bag body is turned to a seat part on which the user can sit down by using the second restraining member, and that the third bag body is shaped into a desired form and allowed to lie in a standing position toward the left with respect to the first bag body by using the second restraining member.

[0043] In the invention, it is preferable that the restraining member includes a third restraining member to restrain movement of the content by partitioning the bag body into a first bag body and a fourth bag body.

[0044] In the invention, it is preferable that the first bag body is turned to a seat part on which the user can sit down by using the third restraining member, and that the fourth bag body is shaped into a desired form and allowed to lie in a standing position toward the right with respect to the first bag body by using the third restraining member.

[0045] In the invention, it is preferable that the content is enclosed in an amount smaller than the interior volume of the bag body to provide the space part within the bag body for deformation of the cushion body.

[0046] In the invention, it is preferable that the bag body is provided with a massage mechanism.

[0047] In the invention, it is preferable that a fifth bag

body to accommodate the massage mechanism is provided on the outer or inner side of the bag body loaded with the content, and that the massage mechanism is movable within the fifth bag body.

[0048] In the invention, it is preferable that the fifth bag body includes a device movement-restricting member to restrict movement of the massage mechanism.

ADVANTAGEOUS EFFECTS OF INVENTION

[0049] The present invention provides a massage function-equipped deformable cushion that allows a user to receive massage not in a position sitting in a chair, but in a comfortable position such as a position reclining on a body pillow.

[0050] The present invention further provides a deformable cushion which is capable of spontaneously deforming into a shape conforming to user's body, and in which the cushion body can be easily deformed and kept in a shape that allows a user to use the cushion in a more comfortable position with even greater relaxing effect.

BRIEF DESCRIPTION OF DRAWINGS

[0051]

FIG. 1 is a perspective view showing a deformable cushion according to a first embodiment of the present invention.

FIG. 2 is a perspective view showing a modified construction of the deformable cushion according to the first embodiment.

FIG. 3 is a schematic view illustrating a change of the shape of the cushion body of the deformable cushion according to the first embodiment.

FIG. 4 is a view showing a form of use of the deformable cushion according to the first embodiment (for waist massage).

FIG. 5 is a view showing a form of use of the deformable cushion according to the first embodiment (for shoulder massage).

FIG. 6 is a side view showing a modified construction of the deformable cushion according to the first embodiment.

FIG. 7 is a perspective view showing the appearance of a deformable cushion according to a second embodiment of the present invention.

FIG. 8 is a perspective view showing the deformable cushion according to the second embodiment, with its air bags indicated by dashed lines.

FIG. 9 is a view showing a form of use of the deformable cushion according to the second embodiment.

FIG. 10 is a perspective view showing the deformable cushion according to the second embodiment, with its air bags, air passageway, case body, LED light, etc. indicated by dashed lines.

FIG. 11 is a perspective view schematically showing a deformable cushion according to a third embodiment of the present invention, with its cushion body in a non-deformed state, or specifically a state of being not constricted by a restraining member, which is a string body, to provide communication between a first bag body and a second bag body.

FIG. 12 is a perspective view schematically showing the deformable cushion according to the third embodiment, with the cushion body in a deformed state, or specifically a state of being constricted by the restraining member (string body) to bring the first bag body and the second bag body into a mutually independent state.

FIG. 13 is a perspective view schematically showing the deformable cushion according to the third embodiment, with the cushion body in a deformed state, or specifically a state of being constricted by the restraining members (string bodies) to bring the first bag body, the second bag body, a third bag body, and a fourth bag body into a mutually independent state.

DESCRIPTION OF EMBODIMENTS

[0052] A deformable cushion 1 according to an embodiment of the present invention will now be described with reference to the drawings. A front-back direction, a right-left, lateral or width direction, and a top-bottom, or vertical direction as employed in the following description coincide with those as viewed from a user M sitting on the deformable cushion 1 embodying the present invention.

[0053]

First Embodiment

FIG. 1 is a perspective view showing the deformable cushion 1 embodying the present invention.

[0054] As shown in FIG. 1, the deformable cushion 1 embodying the present invention, which may be simply called the cushion

1, comprises a cushion body 3 comprising a bag body 2 and content which is enclosed in the bag body 2, and a massage mechanism 4 mounted to the cushion body 3. The cushion body 3 has deformability to deform into a shape conforming to the figure or posture of the user M.

[0055] Firstly, the cushion body 3 comprises a bag body 2 in the form of a bag of about the same size as the body of the user M, or of a size equal to about one-half of the body size. The bag body 2 is internally loaded with the content in a manner to leave a void space inside the body.

[0056] The bag body 2 is obtained by sewing pieces of cloth or plastic sheets together into a bag form. Various materials may be used for the bag body 2, for example, cotton broadcloth. The bag body 2 is preferably made of a stretchable material, but the use of a non-stretchable material may be satisfactory.

[0057] Various shapes may be adopted as the form of the bag body 2. Specific examples include a cylindrical shape, a discotic shape, and a triangular pyramidal shape. The bag body 2 may be made in any desired shape by adjusting the way of cutting a cloth body used as the bag-forming material and sewing positions for sewing cut pieces of the cloth body together. As shown in FIG. 6, the bag body 2 may be made in a cubic form. For the cubic bag body 2, the sitting of the user M on it causes the enclosed content to move so that the cushion 1 deforms into a shape covering the buttocks-to-waist range of user's body.

[0058] Beads are enclosed as the content, or specifically stuffing material in such a bag body 2. Various materials may be used for the beads that may also be called bead bodies. Specific examples include buckwheat husk, rice husk, grains, granular wooden or cork materials, granular polystyrene foam materials, granular polyethylene materials, and granular pipe materials, each ranging in diameter from about a few millimeters to a few centimeters. Use can also be made of cotton materials, silk cotton materials, silk materials, wool materials, polyester cotton materials, acrylic cotton materials, and synthetic resin-made or rubber-made sponge materials, each made into small balls.

[0059] The amount of beads in use to be enclosed in the bag body 2 of the cushion 1 corresponds to 50 to 90 percent of the total volume of the interior of the bag body 2 in order that a void space is left within the bag body 2 for free movement of the beads within the bag body 2. This configuration allows the cushion 1 to change in shape freely. For example, the cushion 1, while normally taking on the form of a vertically elongated bag as shown in FIG. 3, can be deformed into a shape conforming to the body shape, or specifically the figure and the posture of the user M for intimate contact with user's body when the user M causes the enclosed beads to move by hand or other means for free deformation of the cushion 1, or when the user M sits on the cushion 1 while putting the body weight on it.

[0060] The cushion 1 may be formed of a vinyl chloride-made hollow body containing a liquid material, such as water, as a fluid body. The bag body 2, or specifically the cushion body 3, when internally loaded with a spacially movable fluid body, deforms freely into a shape conforming to the posture or figure of the user M.

[0061] Such a cushion 1 has another cloth body or the like sewn in pocket form on a part of the inner surface thereof. The massage mechanism 4 is placed within the pocket.

[0062] The massage mechanism 4 may get in user's way when not needed. To avoid this, a cover cushion 5 in sheet form may be provided. This cover cushion 5 is placed so as to cover the massage mechanism 4 from above. The form of the cover cushion 5 is not limited. For example, the cover cushion 5 may be circularly shaped as shown in FIG. 1, or may be rectangularly shaped. The cover cushion 5 has such a thickness as to keep the massage mechanism 4 hidden from the user M, or may alternatively be made in a thick cushion form according to user's preference. While a cotton material, a sponge material, an urethane material, or the like may preferably be enclosed in the cover cushion 5, the material is not limited. The cover cushion 5 may be loaded with a material similar to the beads enclosed in the cushion body 3.

[0063] The massage mechanism 4 may be incorporated into the cover cushion 5. This arrangement allows the user M to receive

massage to a desired body area simply by placing the cover cushion 5 to a location corresponding to the body area.

[0064] Various improvements may be made in implementing the cushion 1.

[0065] For example, the bag body 2 preferably has a two-layer structure. The bag body 2, when made in a two-layer form, may comprise an outer cloth body, or specifically an outer cover which is removable for washing, and an inner cloth body, or specifically an inner cover which contains beads.

[0066] Various massage mechanisms may be used for the massage mechanism 4. An example of the massage mechanism 4 will be described below.

[0067] The massage mechanism 4 comprises: an arm member 10 formed of an elongated plate material; a driver for outputting a rotational driving force; a rotating shaft that rotates under the outputted rotational driving force; and a converter for rocking motion, being simply called a rock converter, for converting the rotation of the rotating shaft into rocking motion to cause the arm member 10 to rock. There is provided a pair of massage mechanisms 4 arranged in the lateral direction.

[0068] For example, as shown in FIGs. 1 and 2, the arm member 10 is configured to have a base end at the midportion in the direction of its length, and include two portions extending in opposite directions, or specifically extending upwardly and downwardly, respectively, from the base end. The front-end side

of the arm member 10 protrudes forwardly, or specifically protrudes in a direction toward the user M, and is provided at the tip with a treatment element 11.

[0069] The rock converters each convert the rotational driving force into rocking motion, thus causing the arm members 10 to rock with the treatment elements 11 being moved toward and away from each other repeatedly in the lateral direction. This operation enables grasping and kneading massage or tapping massage to be performed on a treatment target area of the body of the user M, for example, the area extending from the shoulder, through the back, to the waist of the user M.

[0070] For such a massage mechanism 4, for example, the mechanism disclosed in Japanese Unexamined Patent Publication JP-A 2017-153733 or the mechanism disclosed in Japanese Unexamined Patent Publication JP-A 2019-058463 may be adopted. Another alternative will be described below.

[0071] The treatment elements 11 of the massage mechanisms 4 may be formed either as a pair of right and left ball-shaped treatment elements or as a pair of right and left kneading boards, arranged in the lateral direction. These treatment elements 11 move toward and away from each other to effect massage operation. The treatment elements 11 may move in a loop-like path or in a figure-of-eight path during the approaching-separating motion. The treatment elements 11 may move either three-dimensionally in the front-back, right-left or lateral, and top-bottom or

vertical directions, or two-dimensionally, while moving in the loop-like or figure-of-eight path.

[0072] The massage mechanism 4 may include any of grasping-massage treatment elements 11 that produce "grasping and kneading motion" to grasp and knead the treatment target area, treatment elements 11 configured for back-and-forth wiggling motion to effect tapping massage operation, and treatment elements 11 configured for vibrating motion to perform vibratory massage.

[0073] The massage mechanism 4 may be designed to perform pressing or pinching massage by using an air bag 25. For the described two-layered bag body 2, the air bag 25 may be disposed either on the inner cover or on the outer cover. In addition to the massage mechanism 4 using the air bag 25, a mechanical massage mechanism 4 may be provided.

[0074] The massage mechanism 4 may be either of a rechargeable type which is driven on charge, or of a corded type which operates with commercial power supplied through a power cord. The cushion 1 may include either one or a plurality of massage mechanisms 4.

[0075] The treatment element 11 of the massage mechanism 4 preferably has a built-in LED or the like that emits light. This allows the user M to easily find the location of the massage mechanism 4. It is naturally desirable that the bag body 2 constituting the cushion 1 be made of a material transmissive

to light emitted from the LED.

[0076] Forms of use of the cushion 1 equipped with the massage mechanism 4 thus far described will now be detailed.

[0077] Firstly, as shown in FIG. 4, the user M sits on the cushion 1 while putting the body weight on it, and deforms the cushion 1 into a shape conforming to the sitting position or posture as desired. The user M then moves the body to allow the desired massage target area to come to a location corresponding to the massage mechanism 4, or specifically the treatment element 11. With the treatment element 11 applied to the target area, the user M actuates the massage mechanism 4. Thus, the user M is able to receive massage to the desired body area in a comfortable position lying on the cushion 1.

[0078] The user M may find the massage mechanism 4 obtrusive when relaxing while sitting on the cushion 1 without using the massage mechanism 4. In this case, as shown in FIG. 1, an extra cover cushion 5 is placed on that part of the cushion corresponding to the position of the massage mechanism 4. This keeps the massage mechanism 4 hidden from the user M.

[0079] As shown in FIG. 2, with the arrangement such that the massage mechanism 4 is incorporated in the cover cushion 5, the user M is able to receive massage to a desired body area simply by placing the cover cushion 5 to a location corresponding to the body area. Considering a case where the user M uses the cushion 1 solely for the purpose of sitting on it with no need

for massage, the cover cushion 5 is configured so that it can be flipped up or otherwise taken off from the top face of the cushion 1.

[0080] Ways for securely placing the cover cushion 5 at a desired location on the cushion 1 include: placing the cover cushion 5 so as to be held between the user M and the cushion body 3; fastening the cover cushion 5 to the cushion 1 by using a string body 6 which is attached to the cover cushion 5; and connecting the cover cushion 5 and the cushion 1 to each other via a hook-and-loop tape.

[0081] The user M, when sitting on the cushion in a position as shown in FIG. 4, can receive waist massage. After that, as the user M slides the own body forward over the cushion 1, as shown in FIG. 5, the cushion 1 deforms into a shape such that the massage mechanism 4 comes to a location corresponding to the shoulders of the user M. In this state, the cushion body 3 has been deformed into a shape conforming to the figure of the user M, thus allowing the user M to surely receive shoulder massage in a comfortable position.

[0082] Common massage chairs customarily include an up-and-down movement mechanism for vertically moving the massage mechanism 4, a back-and-forth movement mechanism for moving the massage mechanism 4 in the front-back direction, etc. to cause the massage mechanism 4 to move to various locations corresponding to different body areas of the user M. In contrast, the cushion

1 embodying the present invention employs the massage mechanism 4 that is smoothly moved to a location corresponding to the treatment target area of the user M without fail simply by deforming the cushion body 3 into an appropriate shape with movement of the beads within the bag body 2. That is, the cushion 1 embodying the present invention eliminates the need for the described movement mechanisms. Besides, the cushion body 3 easily deforms into a flat form only with an appropriate force, and a reclining mechanism such as to lower chair's backrest is therefore not needed. This facilitates changing of the cushion 1 into a bed-type massager form.

[0083] The described massage function-equipped cushion 1 affords various advantageous effects and different forms of use not found in chair-type massagers known in the art. The particulars are as follows.

[0084] Firstly, the massage function-equipped cushion 1 embodying the present invention easily adjusts the massaging force from the massage mechanism 4, or specifically easily increases and decreases the pressing force from the treatment element 11. That is, when it is desired to firmly press the treatment element 11 against the treatment target area, the massage mechanism 4 is brought near to the treatment target area of the user M by causing portions of the enclosed beads to gather to pile up around the back side of the massage mechanism 4 within the cushion 1. This enables the treatment element 11 to be firmly

pressed against the target area of the user M.

[0085] Conversely, the massage mechanism 4 is not supported at its back by a rigid support body. Thus, the massage mechanism 4 in itself sinks within the cushion 1 when subjected to an excessive load. This reduces excessive loading onto the massage mechanism 4, and thereby prevents application of an excessive massaging force to the user M.

[0086] As thus far described, the massage function-equipped cushion 1 embodying the present invention allows the user to receive massage not in a position sitting in a chair, but in a comfortable position such as a position reclining on a body pillow.

[0087]

Second Embodiment

FIGs. 7 to 10 are views showing the deformable cushion 1 according to the second embodiment of the present invention.

[0088] Like the first embodiment, the deformable cushion 1 (the cushion 1) according to the second embodiment comprises a cushion body 3 comprising a bag body 2 and content which is enclosed in the bag body 2, and a massage mechanism 4 mounted to the cushion body 3. The cushion body 3 has deformability to deform into a shape conforming to the figure or posture of the user M.

[0089] The bag body 2 is obtained by sewing pieces of cloth or plastic sheets together into a bag form. Various materials

may be used for the bag body 2, for example, cotton broadcloth. As shown in FIG. 7, the bag body 2 comprises a first bag body 21 dimensioned to be sufficiently large to receive the buttocks of the user M, and a second bag body 22 configured to extend backward from and communicate with the first bag body 21. The first bag body 21 is obtained by sewing pieces of cloth or the like together into an approximately rectangular bag form. The first bag body 21 has an internal space. The second bag body 22 is obtained by sewing pieces of cloth together into a bag form having a front end, or specifically one end located away from the first bag body 21, shaped like an end of a fusiform-shaped body. The second bag body 22 also has an internal space.

[0090] At the left side of the first bag body 21, a third bag body 23 is provided so as to extend leftward in communication with the first bag body 21. The third bag body 23 is obtained by sewing pieces of cloth together into a bag form having a front end, or specifically one end located away from the first bag body 21, shaped like an end of a fusiform-shaped body. At the right side of the first bag body 21, a fourth bag body 24 is provided so as to extend rightward in communication with the first bag body 21. The fourth bag body 24 is obtained by sewing pieces of cloth together into a bag form having a front end, or specifically one end located away from the first bag body 21, shaped like an end of a fusiform-shaped body. The internal space of the first bag body 21 and the internal space of the

third bag body 23 communicate with each other, and the internal space of the first bag body 21 and the internal space of the fourth bag body 24 communicate with each other.

[0091] The internal spaces of, respectively, the first to fourth bag bodies 21 to 24 contain beads as the content, or specifically stuffing material. Various materials may be used for the beads as in the case of the first embodiment.

[0092] The amount of beads in use to be enclosed in the bag body 2 of the cushion 1 corresponds to 50 to 90 percent of the total volume of the interior of the bag body 2 in order that a void space is left within the bag body 2 for free movement of the beads within the bag body 2. This configuration allows the cushion 1 to change in shape freely. When the user M sits on the cushion 1 while putting the body weight on it, the cushion 1 is deformed into a shape conforming to the body shape, or specifically the figure and the posture, of the user M for intimate contact with user's body.

[0093] For the cushion body 3 of the second embodiment in particular, the sitting of the user M on the first bag body 21, or specifically the application of a load to the first bag body 21 via the buttocks of the user M, causes portions of the beads enclosed in the internal space of the first bag body 21 to move to the internal space of the second bag body 22, to the internal space of the third bag body 23, and to the internal space of the fourth bag body 24. After moving to the corresponding bag

body, the beads fill the space part of the bag body, thus causing the second bag body 22 to change in shape so as to extend backward in an upwardly rising state. The front side of the rising second bag body 22 may face the back of the user M, and thus the second bag body 22 serves as a backrest part to support the back of the user M. The second bag body 22 does not necessarily have to be provided.

[0094] Likewise, the third bag body 23 changes in shape so as to extend leftward in an upwardly rising state, and the fourth bag body 24 changes in shape so as to extend rightward in an upwardly rising state. Then, the third bag body 23 and the fourth bag body 24 face each other in the width direction. With the buttocks of the user M lying between the third bag body 23 and the fourth bag body 24, the third bag body 23 and the fourth bag body 24 take on a form for holding the buttocks of the user M in between.

[0095] The cushion body 3 of the second embodiment includes the bag body 2 having a two-layer structure, or specifically the two-layered bag body 2 comprising an inner cloth body and an outer cloth body. The inner cloth body, which is an inner cover, is a bag body that contains beads, and the outer cloth body, which is an outer cover, has nearly the same shape as that of the inner cloth body, and covers the inner cloth body. Between the inner cloth body and the outer cloth body, there is provided one or a plurality of air bags 25 capable of performing pressing

massage to the treatment target area of the user M. More specifically, the air bags 25 are attached at predetermined spaced intervals to the surface of the inner cloth body. An air passageway 26 for conduction of air, an air pump, not shown, for producing compressed air which is supplied to the air bags 25, etc. are additionally provided.

[0096] While the air bags 25 may be placed in any desired arrangement, in the second embodiment, as shown in FIG. 8, the second bag body 22 is provided at the front-end side with a pair of right and left air bags 25, and is also provided at the base-end side, or specifically the end side close to the first bag body 21, with a pair of right and left air bags 25. The first bag body 21 has a pair of right and left air bags 25. The third bag body 23 and the fourth bag body 24 each have one air bag 25.

[0097] The pair of right and left air bags 25 disposed at the first bag body 21, when inflated, presses the buttocks of the user M from below to perform pressing massage on the buttocks. The four air bags 25 in total disposed at the second bag body 22 give pressing massage to the back of the user M. The air bag 25 of the third bag body 23 and the air bag 25 of the fourth bag body 24, when inflated simultaneously, laterally hold the buttocks and the pelvis of the user M in between to perform effective massage on the buttocks-pelvis area of the user M.

[0098] Forms of use of the described massage

mechanism-equipped deformable cushion 1 according to the second embodiment will now be detailed.

[0099] Firstly, as shown in FIG. 9, the user M sits on the cushion 1 while putting the body weight on it, and deforms the cushion body 3 into a shape conforming to the sitting position or posture as desired. At this time, the body weight of the user M causes portions of the beads enclosed in the first bag body 21 to move to the second bag body 22, thus causing the second bag body 22 to change in shape so as to extend backward in an upwardly rising state. The front side of the rising second bag body 22 may face the back of the user M, and thus the second bag body 22 serves as a backrest part to support the back of the user M.

[0100] When the user M leans the body against the rising second bag body 22 for support, the air bags 25 disposed at the second bag body 22 abut on the back of the user M to perform pressing massage to the back. With the air bags 25 in the inflated state, the second bag body 22 serves as a support, or specifically a support body that supports the back from the rear. This allows the pressing force exerted by the inflated air bags 25 to be surely applied to the back of the user M without escape of the force in the backward direction.

[0101] The body weight of the user M also causes portions of the beads enclosed in the first bag body 21 to move to the third bag body 23, as well as to the fourth bag body 24, thus

causing the third bag body 23 and the fourth bag body 24 to change in shape so as to extend leftward and rightward, respectively, in an upwardly rising state. Then, the third bag body 23 and the fourth bag body 24 face each other in the width direction. With the buttocks of the user M lying between the third bag body 23 and the fourth bag body 24, the third bag body 23 and the fourth bag body 24 each serve as a support, or specifically a support body that supports the buttocks from the rear, and the air bag 25 of the third bag body 23 and the air bag 25 of the fourth bag body 24 take on a form that holds the buttocks of the user M in between. The introduction of compressed air into the air bags 25 permits inflation of the air bags 25, and, the inflated air bags 25 laterally hold the buttocks of the user M in between to perform pressing massage on the buttocks.

[0102] The dimensions of the third bag body 23, the dimensions of the fourth bag body 24, and the distance between the third bag body 23 and the fourth bag body 24 in the width direction vary in response to the movement of the enclosed beads within the bag body 2 to surely correspond to the body frame of the user M. For example, the sizes of the cloth bodies that constitute the third bag body 23 and the fourth bag body 24, and the widthwise distance between the bag bodies may be determined with consideration given to the body frame of a user having a small build. In this case, even when a user having a large build uses the cushion, the beads are caused to move

to deform the cushion body 3 into a shape conforming to the body frame of the user M of large build.

[0103] The user M then moves the body to allow the air bag 25 to be applied to the desired massage target area. With the air bag 25 in an inflated state, the user M is able to receive pressing massage to the desired target area in a comfortable position lying on the cushion 1.

[0104] In the cushion 1 according to the second embodiment, the massage mechanism 4 as described in the section on the first embodiment may be installed in place of the air bag 25. In this case, the user may find the massage mechanism 4 obtrusive when relaxing while sitting on the cushion 1. To avoid this, as in the case of the first embodiment, an extra cover cushion 5 may be placed on that part of the cushion corresponding to the location of the massage mechanism 4. This arrangement keeps the massage mechanism 4 hidden from the user M.

[0105] It is highly desirable that the cushion 1 according to the second embodiment employ the following structure for improvement in performance capability and in usability for the user M.

[0106] As shown in FIG. 10, at the boundary between the rear end of the first bag body 21 and that part of the second bag body 22 connected to the rear end, there is preferably provided a case body 30 shaped so as to bulge toward the back side of the cushion, or specifically toward the inside of the cushion

body 3. The case body 30 is made of a relatively hard material such as a plastic material, has a horizontally elongated cylindrical form, and is formed with an internal space. For example, the case body 30 is circular, elliptical, or rectangular in cross section. The case body 30 is disposed in a widthwise oriented state at a location corresponding to the rear end of the first bag body 21. More specifically, the case body 30 is sewn, bonded, or otherwise attached to the first bag body 21 and to the second bag body 22. The case body 30 thus provided receives therein an air pump for producing compressed air which is supplied to the air bags 25, an electromagnetic valve, a control board that controls the air pump and the electromagnetic valve, etc.

[0107] The case body 30 has an opening part, not shown, opening toward the first bag body 21 and the second bag body 22. The air passageway 26, which extends from the electromagnetic valve to the air bag 25, is configured to extend outward through the opening part.

[0108] The mechanical components such as the air pump are housed within the case body 30, and therefore do not get in the way of the user M when the user M sits or leans on the cushion body 1 according to this embodiment. This arrangement also minimizes the occurrence of problems such as bending of an air tube housed within the case body 30. The air tube is coupled at the front end with the air passageway 26 for introduction

of compressed air into the air bag 25. Compressed air is introduced through the air passageway 26 into the air bag 25. The air passageway 26 for the supply of compressed air to the air bag 25 is preferably formed of two pieces of cloth, or specifically two pieces of air-impermeable cloth, press-bonded together only at the upper and lower edges thereof to leave a space path between them for the passage of air.

[0109] The horizontally elongated case body 30 is disposed in a widthwise oriented state at a location corresponding to the rear end of the first bag body 21. In addition, on the outer-surface side of the case body 30, a plurality of LED lights 31 are preferably arranged in the direction of the length of the case body 30. Upon turning on the LED lights 31, the user M finds the location of the first bag body 21 at a glance from outside of the cushion body 3, and is then able to readily bring the buttocks to the location of the first bag body 21. As contrasted to the frame body of the conventional chair-type massager, the cushion body 3 easily changes in shape. Depending on deformed configurations, it may be difficult for the user to find the location of the air bag 25 for massage and to know where to lean the body in the cushion body.

[0110] In this regard, the above structure provides the horizontal array of the LED lights 31 that illuminate as an indication for the user to sit on the cushion body 3 with the buttocks put in the proper position. The air bag 25 is then

brought into intimate contact with the treatment target area of user's body without fail to ensure satisfactory pressing massage for the user.

[0111] The described cushion body 3 may include a heating element for warming the body of the user M, and/or a cooling element for cooling the body. Specific examples of the heating element include a Positive Temperature Coefficient, or PTC heater and a nichrome wire, and specific examples of the cooling element include a Peltier device.

[0112]

Third Embodiment

FIGs. 11 to 13 are views showing the deformable cushion 1 according to the third embodiment of the present invention.

[0113] As in the case shown in FIG. 7, the deformable cushion 1 embodying the present invention, which may be simply called the cushion 1, comprises a cushion body 3 comprising two or more combined bag bodies 2, and free-flowing material content, or specifically bead bodies to be enclosed in the bag bodies 2.

[0114] The cushion body 3 has deformability to deform on its own into a shape conforming to the figure or posture of the user M. The cushion body 3 has a size equal to about one-half of the body size of the user M. The cushion body 3 comprises two or more bag bodies 2 capable of containing the content. In this embodiment, the cushion body 3 comprises four bag bodies 21 to 24.

[0115] In this embodiment, the bag body 2 is not fully filled with the content, but is internally loaded with the content in an amount smaller than the interior volume of the bag body 2 to leave some room inside the bag body 2 as a whole. This enables the cushion body 3 (the cushion 1) to deform on its own into a shape conforming to the figure or posture of the user M.

[0116] The bag body 2 is obtained by sewing pieces of cloth or plastic sheets together into a bag form. Various materials may be used for the bag body 2, for example, cotton broadcloth. The stretchability of the bag body 2 may be suitably adjusted in accordance with design specifications.

[0117] Various shapes may be adopted as the form of the bag body 2. The bag body 2 may be made in any desired shape by adjusting the way of cutting a cloth body used as the bag-forming material and sewing positions for sewing cut pieces of the cloth body together. As shown in FIG. 1, the bag body 2 may be made in a triangular pyramidal form. In this case, the sitting of the user M on it causes the enclosed content to move so that the cushion 1 deforms into a shape covering the buttocks-to-waist range of user's body.

[0118] In this embodiment, as shown in the drawings such as FIGs. 11 to 13, the bag body 2 comprises a first bag body 21 dimensioned to be sufficiently large to receive the buttocks of the user M, a second bag body 22 configured to extend backward from and communicate with the first bag body 21, a third bag

body 23 provided on the left side of the first bag body 21 in communication with the first bag body 21, and a fourth bag body 24 provided on the right side of the first bag body 21 in communication with the first bag body 21.

[0119] That is, in this embodiment, the bag body 2 (the cushion body 3) is divided into four chambers, namely the first bag body 21, the second bag body 22, the third bag body 23, and the fourth bag body 24 that are in communication with one another.

[0120] The bag body 2 may be formed of a single sheet material comprising four chamber segments that constitute the first to fourth bag bodies 21 to 24, respectively, or may be obtained by bonding four separate first to fourth bag bodies 21 to 24 together. While, in this embodiment, the bag body 2 comprises four divided bag body segments, namely the first bag body 21, the second bag body 22, the third bag body 23, and the fourth bag body 24, it is only required that the bag body 2 comprises at least two or more bag body segments.

[0121] The first bag body 21 is dimensioned to be sufficiently large to allow the user M to sit on it. That is, the first bag body 21 becomes a seat part when the user M sits on it. The first bag body 21 is formed of two stacked cut pieces of approximately rectangular cloth, or specifically cut pieces of an approximately rectangular flexible thin-sheet material sewn together at their edges. The first bag body 21 is internally loaded with beads, which may also be called bead bodies, as the

content that will hereafter be described in detail.

[0122] When the user M sits on the first bag body 21, the second bag body 22 is shaped into an approximately triangular pyramidal form having a size large enough to support the back of the user M. That is, the second bag body 22 serves as a backrest part when the user M sits on the first bag body 21.

[0123] The second bag body 22 is formed of two stacked cut pieces of cloth, or specifically cut pieces of a flexible thin sheet material sewn together at their edges. Each cut piece has a front end, or specifically one end located backward away from the first bag body 21, shaped like an end of a fusiform-shaped body. The second bag body 22 is internally loaded with beads. The second bag body 22 communicates with the first bag body 21, and the enclosed beads are movable between the second bag body 22 and the first bag body 21 accordingly.

[0124] At the left side of the first bag body 21, the third bag body 23 is provided so as to extend leftward from the first bag body 21. The third bag body 23 is shaped into an approximately triangular pyramidal form when the user M sits on the first bag body 21. That is, when the user M sits on the first bag body 21, the third bag body 23 is in a position to cover the left side of the buttocks of the user M. The third bag body 23 may also be used as a left armrest part.

[0125] The third bag body 23 is formed of two stacked cut pieces of cloth, or specifically cut pieces of a flexible thin

sheet material sewn together at their edges. Each cut piece has a front end, or specifically one end located leftward away from the first bag body 21, shaped like an end of a fusiform-shaped body. The third bag body 23 is internally loaded with beads. The third bag body 23 communicates with the first bag body 21, and the enclosed beads are movable between the third bag body 23 and the first bag body 21 accordingly.

[0126] The fourth bag body 24 is provided on the right side of the first bag body 21. The fourth bag body 24 is shaped similarly in mirror image relation to the third bag body 23 in the lateral direction. The fourth bag body 24 is provided so as to extend rightward from the first bag body 21. The fourth bag body 24 is shaped into an approximately triangular pyramidal form when the user M sits on the first bag body 21. That is, when the user M sits on the first bag body 21, the fourth bag body 24 is in a position to cover the right side of the buttocks of the user M. The fourth bag body 24 may also be used as a right armrest part.

[0127] The fourth bag body 24 is formed of two stacked cut pieces of cloth, or specifically cut pieces of a flexible thin sheet material sewn together at their edges. Each cut piece has a front end, or specifically one end located rightward away from the first bag body 21, shaped like an end of a fusiform-shaped body. The fourth bag body 24 is internally loaded with beads. The fourth bag body 24 communicates with the first bag body 21,

and the enclosed beads are movable between the fourth bag body 24 and the first bag body 21 accordingly.

[0128] That is, the first bag body 21 communicates with each of the second bag body 22, the third bag body 23, and the fourth bag body 24, thus allowing the enclosed beads to freely move among the first to fourth bag bodies 21 to 24. The form of the cushion body 3 according to this embodiment; that is, the shapes, materials, arrangement, etc. of the first to fourth bag bodies 21 to 24 are cited merely by way of example and without limitation.

[0129] The described first to fourth bag bodies 21 to 24 (the bag body 2) are internally loaded with beads as the free-flowing content (stuffing material). Various materials may be used for the beads. Preferred examples include granular polystyrene foam materials, granular polyethylene materials, and granular pipe materials, each ranging in diameter from about a few millimeters to a few centimeters. The content is not limited to the above examples, and use can be made of any other suitable materials having free-flowing properties.

[0130] The amount of beads in use to be enclosed in each of the first to fourth bag bodies 21 to 24 of the cushion 1 corresponds to 50 to 90 percent of the total volume of the interior of the corresponding bag body in order that a void space is left within each of the first to fourth bag bodies 21 to 24 for free movement of the enclosed beads among the first to fourth bag

bodies 21. The amount of the beads may be adjusted as needed.

[0131] That is, the amount of the beads to be enclosed as the content is less than the volume of the interior of each of the first to fourth bag bodies 21 to 24. The beads are enclosed in an amount that, while fulfilling the performance capability of the cushion 1, allows them to move among the first to fourth bag bodies 21 to 24. The material for use as the beads, the amount of the enclosed beads, etc. are determined in consideration given to the comfort of the user who sits on the cushion.

[0132] Thus constructed, the cushion 1 changes its shape freely. For example, as shown in FIGs. 11 to 13, when the user M causes the enclosed beads to move by hand or other means for free deformation of the cushion 1, or when the user M sits on the cushion 1 while putting the body weight on it, the cushion 1 is deformed into a shape conforming to the body shape, or specifically the figure and the posture, of the user M for intimate contact with user's body.

[0133] For the cushion body 3 of this embodiment in particular, the sitting of the user M on the first bag body 21 which serves as a seat part, or specifically the application of a load to the first bag body 21 via the buttocks of the user M, causes portions of the beads enclosed in the first bag body 21 to move to the second bag body 22 which becomes a backrest part, to the left-hand third bag body 23, and to the right-hand fourth bag body 24. When the user M sits on the first bag body

1 serving as a seat part, the body weight of the sitting user M causes many beads of the first bag body 21 to move, and the beads of the first bag body 21 become smaller in amount than those of each of the second to fourth bag bodies 22 to 24 correspondingly.

[0134] After moving to the second to fourth bag bodies 22 to 24, respectively, the enclosed beads fill the interior of the corresponding bag body, or specifically substantially fill the bag body to capacity. The enclosed beads that have moved to the second bag body 22 cause the bag body 22 to change in shape so as to extend backward in an upwardly rising state. The front side of the rising second bag body 22 may face the back of the user M, and thus the second bag body 22 serves as a backrest part to support the back of the user M.

[0135] The enclosed beads that have moved to the third bag body 23 cause the bag body 23 to change in shape so as to extend leftward in an upwardly rising state. Likewise, the enclosed beads that have moved to the fourth bag body 24 cause the bag body 24 to change in shape so as to extend rightward in an upwardly rising state.

[0136] The third bag body 23 and the fourth bag body 24 change in shape so that they are arranged facing each other in the width direction. With the buttocks of the user M lying between the third bag body 23 and the fourth bag body 24, the third bag body 23 and the fourth bag body 24 take on a form for holding

the buttocks of the user M in between.

[0137] The cushion 1 may be formed of a vinyl chloride-made hollow body containing a liquid material, such as water, as a fluid body. The bag body 2 (the cushion body 3), when internally loaded with a spacially movable fluid body, deforms freely into a shape conforming to the posture or figure of the user M.

[0138] In this embodiment, the cushion body 3 includes a restraining member that restrains the movement of the content by partitioning the bag body 3 into at least two or more bag body segments. The restraining member according to this embodiment comprises a first restraining member 48, a second restraining member 41, and a third restraining member 44 that will hereafter be described.

[0139] In this embodiment, the cushion body 3 includes the first restraining member 48 that restrains the movement of the beads by partitioning the bag body 2 into two chambers, namely the first bag body 21 and the second bag body 22. With the first restraining member 48 added, the second bag body 22 becomes a bag body situated at the back side of the first bag body 21.

[0140] In this embodiment, the first restraining member 48 is provided in a transitional area, or specifically an area of communication between the first bag body 21 and the second bag body 22. In other words, the first restraining member 48 divides a single bag body 2 into the first bag body 21 and the second bag body 22.

[0141] The first restraining member 48 restrains the movement of the beads enclosed in the bag body 2 in a manner such that one of the bag body segments which contains an increased amount of the beads, or specifically the second bag body 22 in this embodiment, is shaped and kept in a desired form.

[0142] For example, portions of the beads lying in one of the sides of the interior of the bag body 2 which serves as the interior of the first bag body 21 are caused to gather in the other side which serves as the interior of the second bag body 22. After that, the beads are restrained from further movement by the first restraining member 48. This enables the second bag body 22 to be bulged and shaped into an approximately triangular pyramidal form.

[0143] With the first restraining member 48, the second bag body 22 is shaped into the desired form, and is situated in a standing position toward the rear with respect to the first bag body 21. That is, in this embodiment, the first restraining member 48 allows the first bag body 21 to serve as a seat part for the sitting of the user M, and allows the second bag body 22 to serve as a backrest part. Loosening the first restraining member 48 returns the first bag body 21 and the second bag body 22 to a mutually communicating state.

[0144] While a long piece of string body is used for the first restraining member 48 in this embodiment, the material for the first restraining member 48 is not limited. The first

restraining member 48 may be formed of the string body or a belt, or other suitable material capable of restricting the communication between the first bag body 21 and the second bag body 22 to restrain the movement of the enclosed beads.

[0145] In the transitional area between the first bag body 21 and the second bag body 22, an elongated first string insertion part 49 is provided so as to extend from the left to the right in the lateral direction. The first string insertion part 49 is formed as a laterally elongated tunnel-like space extending around the outer periphery of the transitional area.

[0146] The first string body 48 is additionally provided so as to pass through the inside of the first string insertion part 49 while running around the transitional area between the first bag body 21 and the second bag body 22. The first string body 48 has a distal end part protruding outward from a first string insertion opening 40 of the first string insertion part 49. The distal end part has a handgrip. In this embodiment, the first string insertion opening 40 is located toward the left. The locations of the first string insertion part 49 and the first string insertion opening 40 may be adjusted as needed.

[0147] For example, the enclosed beads are caused to gather in each of the first and second bag bodies 21 and 22. The relative proportion of the beads gathering in the first bag body 21 and the beads gathering in the second bag body 22 may be suitably adjusted. Pulling the first string body 48 causes the first

string insertion part 49 to collapse into a bellows form, thus restricting the communication between the first bag body 21 and the second bag body 22 to restrain the enclosed beads from moving between the two chambers, namely the first bag body 21 and the second bag body 22.

[0148] The first string body 48 allows the second bag body 22 containing an increased amount of the beads to be shaped into the desired form, and also brings the first bag body 21 and the second bag body 22 into a mutually independent state. That is, the first bag body 21 serves as a seat part, whereas the second bag body 22 serves as a backrest part, thus constituting the cushion body 3 on which the user can sit down.

[0149] Loosening the first string body 48 frees the first string insertion part 49 from the collapsed state, thus providing communication between the first bag body 21 and the second bag body 22 to permit the movement of the enclosed beads.

[0150] The cushion body 3 includes the second restraining member 41 that restrains the movement of the beads by partitioning the bag body 2 into two chambers, namely the first bag body 21 and the third bag body 23. With the second restraining member 41 added, the third bag body 23 becomes a bag body situated at the left side of the first bag body 21.

[0151] In this embodiment, the second restraining member 41 is disposed in a transitional area, or specifically an area of communication between the first bag body 21 and the third

bag body 23. In other words, the second restraining member 41 divides a single bag body 2 into the first bag body 21 and the third bag body 23.

[0152] The second restraining member 41 restrains the movement of the beads enclosed in the bag body 2 in a manner such that one of the bag body segments which contains an increased amount of the beads, or specifically the third bag body 23 in this embodiment, is shaped and kept in a desired form.

[0153] For example, portions of the beads lying in one of the sides of the interior of the bag body 2 which serves as the interior of the first bag body 21 are caused to gather in the other side which serves as the interior of the third bag body 23. After that, the beads are restrained from further movement by the second restraining member 41. This enables the third bag body 23 to be bulged and shaped into an approximately triangular pyramidal form.

[0154] With the second restraining member 41, the third bag body 23 is shaped into the desired form, and is situated in a standing position on the left side of the first bag body 21. That is, in this embodiment, the second restraining member 41 allows the first bag body 21 to serve as a seat part for the sitting of the user M, and allows the third bag body 23 to serve as a left-hand wall part. Loosening the second restraining member 41 returns the first bag body 21 and the third bag body 23 to a mutually communicating state.

[0155] While a long piece of string body is used for the second restraining member 41 in this embodiment, the material for the second restraining member 41 is not limited. The second restraining member 41 may be formed of the string body or a belt, or other suitable material capable of restricting the communication between the first bag body 21 and the third bag body 23 to restrain the movement of the enclosed beads.

[0156] In the transitional area between the first bag body 21 and the third bag body 23, an elongated second string insertion part 42 is provided so as to extend from the front to the rear in the front-back direction. The second string insertion part 42 is formed, in the shape of a tunnel-like space elongated in the front-back direction, so as to extend around the outer periphery of the transitional area.

[0157] The second string body 41 is additionally provided so as to pass through the inside of the second string insertion part 42 while running around the transitional area between the first bag body 21 and the third bag body 23. The second string body 41 has a distal end part protruding outward from a second string insertion opening 43 of the second string insertion part 42. The distal end part has a handgrip. In this embodiment, the second string insertion opening 43 is located toward the rear. The locations of the second string insertion part 42 and the second string insertion opening 43 may be adjusted as needed.

[0158] For example, the enclosed beads are caused to gather

in each of the first and third bag bodies 21 and 23. The relative proportion of the beads gathering in the first bag body 21 and the beads gathering in the third bag body 23 may be suitably adjusted. Pulling the second string body 41 causes the second string insertion part 42 to collapse into a bellows form, thus restricting the communication between the first bag body 21 and the third bag body 23 to restrain the enclosed beads from moving between the two chambers, namely the first bag body 21 and the third bag body 23.

[0159] The second string body 41 allows the third bag body 23 containing an increased amount of the beads to be shaped into the desired form, and also brings the first bag body 21 and the third bag body 23 into a mutually independent state. More specifically, the third bag body 23 deforms into a shape such that it is in a rising state with respect to the first bag body 21. That is, when the user M sits on the first bag body 21, the third bag body 23 is in a position to cover the left side of the buttocks of the user M.

[0160] Loosening the second string body 41 frees the second string insertion part 42 from the collapsed state, thus providing communication between the first bag body 21 and the third bag body 23 to permit the movement of the enclosed beads.

[0161] The cushion body 3 includes the third restraining member 44 that restrains the movement of the beads by partitioning the bag body 2 into two chambers, namely the first bag body 21

and the fourth bag body 24. With the third restraining member 44 added, the fourth bag body 24 becomes a bag body situated at the right side of the first bag body 21.

[0162] In this embodiment, the third restraining member 44 is disposed in a transitional area, or specifically an area of communication between the first bag body 21 and the fourth bag body 24. In other words, the third restraining member 44 divides a single bag body 2 into the first bag body 21 and the fourth bag body 24.

[0163] The third restraining member 44 restrains the movement of the beads enclosed in the bag body 2 in a manner such that one of the bag body segments which contains an increased amount of the beads, or specifically the fourth bag body 24 in this embodiment, is shaped and kept in a desired form.

[0164] For example, portions of the beads lying in one of the sides of the interior of the bag body 2 which serves as the interior of the first bag body 21 are caused to gather in the other side which serves as the interior of the fourth bag body 24. After that, the beads are restrained from further movement by the third restraining member 44. This enables the fourth bag body 24 to be bulged and shaped into an approximately triangular pyramidal form.

[0165] With the third restraining member 44, the fourth bag body 24 is shaped into the desired form, and is situated in a standing position on the right side of the first bag body

21. That is, in this embodiment, the third restraining member 44 allows the first bag body 21 to serve as a seat part for the sitting of the user M, and allows the fourth bag body 24 to serve as a right-hand wall part. Loosening the third restraining member 44 returns the first bag body 21 and the fourth bag body 24 to a mutually communicating state.

[0166] While a long piece of string body is used for the third restraining member 44 in this embodiment, the material for the third restraining member 44 is not limited. The third restraining member 44 may be formed of the string body or a belt, or other suitable material capable of restricting the communication between the first bag body 21 and the fourth bag body 24 to restrain the movement of the enclosed beads.

[0167] In the transitional area between the first bag body 21 and the fourth bag body 24, an elongated third string insertion part 45 is provided so as to extend from the front to the rear in the front-back direction. The third string insertion part 45 is formed, in the shape of a tunnel-like space elongated in the front-back direction, so as to extend around the outer periphery of the transitional area.

[0168] The third string body 44 is additionally provided so as to pass through the inside of the third string insertion part 45 while running around the transitional area between the first bag body 21 and the fourth bag body 24. The third string body 44 has a distal end part protruding outward from a third

string insertion opening 46 of the third string insertion part 45. The distal end part has a handgrip. In this embodiment, the third string insertion opening 46 is located toward the rear. The locations of the third string insertion part 45 and the third string insertion opening 46 may be adjusted as needed.

[0169] For example, the enclosed beads are caused to gather in each of the first and fourth bag bodies 21 and 24. The relative proportion of the beads gathering in the first bag body 21 and the beads gathering in the fourth bag body 24 may be suitably adjusted. Pulling the third string body 44 causes the third string insertion part 45 to collapse into a bellows form, thus restricting the communication between the first bag body 21 and the fourth bag body 24 to restrain the enclosed beads from moving between the two chambers, namely the first bag body 21 and the fourth bag body 24.

[0170] The third string body 44 allows the fourth bag body 24 containing an increased amount of the beads to be shaped into the desired form, and also brings the first bag body 21 and the fourth bag body 24 into a mutually independent state. More specifically, the fourth bag body 24 deforms into a shape such that it is in a rising state with respect to the first bag body 21. That is, when the user M sits on the first bag body 21, the fourth bag body 24 is in a position to cover the right side of the buttocks of the user M.

[0171] Loosening the third string body 44 frees the third

string insertion part 45 from the collapsed state, thus providing communication between the first bag body 21 and the fourth bag body 24 to permit the movement of the enclosed beads.

[0172] The third bag body 23 becomes an independent bag body by using the second string body 41, and the fourth bag body 24 becomes an independent bag body by using the third string body 44. These mutually independent bag bodies 23 and 24 deform so as to cover the left side and the right side, respectively, of the first bag body 21 which serves as a seat part. That is, the third bag body 23 and the fourth bag body 24 are in positions to wrap around the buttocks of the user M.

[0173] The forms, materials, arrangement, etc. of the restraining members 48, 41, and 44 (the string bodies 48, 41, and 44), the string insertion parts 49, 41, and 45, and the string insertion openings 40, 43, and 46 of this embodiment are cited merely by way of example and without limitation.

[0174] Each of the restraining members 48, 41, and 44, which is means for restraining the movement of the content (beads) enclosed in the bag body 2, may take on the following form instead of the string body or belt form as exemplified in this embodiment.

[0175] For example, the bag body 2 is provided with fasteners (zippers) as the restraining members 48, 41, and 44. In this case, the movement of the beads within the bag body 2 is restrained by opening or closing the fasteners. As another example, the bag body 2 is provided with buttons as the restraining members

48, 41, and 44. In this case, the movement of the beads within the bag body 2 is restrained by fastening or unfastening the buttons.

[0176] Thus, the bag body 2 internally loaded with beads includes the restraining members 48, 41, and 44 for restraining the movement of the beads. This arrangement allows the user M to deform the beads cushion 1 having freedom of deformation into a favorite shape, or specifically a shape that puts the user M in a relaxed state of mind, and also reliably keeps the cushion 1 in that shape.

[0177] Forms of use of the described cushion 1 according to this embodiment will now be described with reference to the drawings. The following forms of use of the cushion 1 are cited merely by way of example and without limitation.

[0178] In this embodiment, the cushion body 3 can be deformed into a desired shape prior to use by using the described restraining member (48, 41, 44), i.e. the string body (48, 41, 44).

[0179] More specifically, starting from the state shown in FIG. 11 where the string bodies 48, 41, and 44 are left unpulled, the usage of the first string body 48 will be described first. The enclosed beads are caused to gather in each of the first bag body 21 and the second bag body 22 so that, for example, the second bag body 22 contains a larger amount of the beads.

[0180] As shown in FIG. 12, the first string body 48 is

drawn out through the first string insertion opening 40 by pulling on the handgrip of the first string body 48, thus causing the first string insertion part 49 to collapse into a bellows form. That is, the first bag body 21 and the second bag body 22 take on a form shaped like a closed drawstring bag.

[0181] Then, the communication between the first bag body 21 and the second bag body 22 is restricted, and the enclosed beads are therefore restrained from moving between the first bag body 21 and the second bag body 22. The first string body 48 (the first restraining member 48) allows the second bag body 22 containing an increased amount of the beads to be shaped and kept in a desired form. Thus, the first bag body 21 and the second bag body 22 are brought into a mutually independent state. Even in this state, the cushion is ready for use. When the user M sits on the first bag body 21 while putting the body weight on it, the first bag body 21 becomes a seat part, and the second bag body 22 becomes a backrest part.

[0182] The following describes the case of using the second string body 41 and the third string body 44 in addition to the first string body 48. The enclosed beads are caused to gather in each of the first bag body 21, the second bag body 22, the third bag body 23, and the fourth bag body 24 so that, for example, the second bag body 22, the third bag body 23, and the fourth bag body 24 each contain a larger amount of the beads. The first string body 48 is operated in the procedure as above described.

[0183] As shown in FIG. 13, the second string body 41 is drawn out through the second string insertion opening 43 by pulling on the handgrip of the second string body 41, thus causing the second string insertion part 42 to collapse into a bellows form. That is, the first bag body 21 and the third bag body 23 take on a form shaped like a closed drawstring bag.

[0184] Then, the communication between the first bag body 21 and the third bag body 23 is restricted, and the enclosed beads are therefore restrained from moving between the first bag body 21 and the third bag body 23. The second string body 41 (the second restraining member 41) allows the third bag body 23 containing an increased amount of the beads to be shaped and kept in a desired form. Thus, the first bag body 21 and the third bag body 23 are brought into a mutually independent state. When the user M sits on the first bag body 21, the third bag body 23 is in a position to cover the left side of the buttocks of the user M.

[0185] Then, the third string body 44 is drawn out through the third string insertion opening 46 by pulling on the handgrip of the third string body 44, thus causing the third string insertion part 45 to collapse into a bellows form. That is, the first bag body 21 and the fourth bag body 24 take on a form shaped like a closed drawstring bag.

[0186] Then, the communication between the first bag body 21 and the fourth bag body 24 is restricted, and the enclosed

beads are therefore restrained from moving between the first bag body 21 and the fourth bag body 24. The second string body 41 (the second restraining member 41) allows the third bag body 23 containing an increased amount of the beads to be shaped and kept in a desired form. Thus, the first bag body 21 and the fourth bag body 24 are brought into a mutually independent state. When the user M sits on the first bag body 21, the fourth bag body 24 is in a position to cover the right side of the buttocks of the user M.

[0187] Thus, the user M sits on the cushion 1 which has already been deformed into a desired shape by using the string bodies 48, 41, and 44. In this case, with the increased conformity of the cushion 1 to the body of the user M, the user M is able to lean the body against the second bag body 22 rising more upwardly, and besides, the third and fourth bag bodies 23 and 24 rising more upwardly deeply envelop the buttocks of the user M. This allows the user M to use the cushion 1 in a more comfortable position.

[0188] The first string insertion part 49 is freed from the collapsed state by loosening the first string body 48, the second string insertion part 42 is freed from the collapsed state by loosening the second string body 41, and the third string insertion part 45 is freed from the collapsed state by loosening the third string body 44. This procedure permits communication among the first to fourth bag bodies 21 to 24, thus enabling

the movement of the enclosed beads (refer to FIG. 11).

[0189] In this embodiment, the cushion 1 is serviceable without the use of the string bodies 48, 41, and 44. With the cushion 1 in the state shown in FIG. 11, the user M sits down on the cushion body 3 while putting the body weight on the first bag body 21 serving as a seat part. At this time, due to the body weight of the user M, portions of the beads enclosed in the first bag body 21 move to each of the second bag body 2, the third bag body 23, and the fourth bag body 24. The interior of the second bag body 22 is filled with the beads thus moved. Likewise, the interiors of the third and fourth bag bodies 23 and 24 are each filled with the beads thus moved.

[0190] The second bag body 22 is then caused to change in shape so as to extend backward in an upwardly rising state, and becomes a backrest part to support the back of the user M. The third bag body 23 is also caused to change in shape so as to extend leftward in an upwardly rising state, and attains a position to cover the left side of the buttocks of the user M. The third bag body 23 may also be used as a left armrest part.

[0191] Likewise, the fourth bag body 24 is caused to change in shape so as to extend rightward in an upwardly rising state, and attains a position to cover the right side of the buttocks of the user M. The fourth bag body 24 may also be used as a right armrest part.

[0192] As in the case shown in FIG. 9, the cushion 1, when

the user M sits down on it, deforms on its own into a shape conforming to the body of the user M. The user M is thus able to lean the body against the second bag body 22, and besides, the third bag body 23 and the fourth bag body 24 envelop the buttocks of the user M. This allows the user M to use the cushion 1 in a comfortable position.

[0193] As described above, the deformable cushion 1 embodying the present invention, which spontaneously deforms into a shape conforming to the body of the user M, includes the capability of enabling the cushion body to readily deform into a desired shape, for example, a chair shape, and keep the shape prior to use, or equivalently includes the restraining members 48, 41, and 44 (the string bodies 48, 41, and 44). This design allows the user to use the cushion 1 in a more comfortable position with even greater relaxing effect.

[0194] Moreover, in the deformable cushion 1 embodying the present invention, for example, before the beads enclosed as the content are caused to move through the cushion, the flowing movement of the enclosed beads among the first to fourth bag bodies 21 to 24 can be restrained by the restraining member (48, 41, 44). This permits control of beads movement, and facilitates deformation of the deformable cushion 1 accordingly.

[0195] With no restraint placed on the flow of the enclosed beads by the restraining members 48, 41, and 44, the sitting of the user on the first bag body 21 forces the beads enclosed

in the first bag body 21 to move to each of the second bag body 22, the third bag body 23, and the fourth bag body 24.

[0196] As an example, in the case of using the first restraining member 48 to restrain the enclosed beads from flowing between the first bag body 21 and the second bag body 22, when the user sits on the first bag body 21, the amount of flow of the beads enclosed in the first bag body 21 to the second bag body 22 is limited, and the amount of flow of the beads enclosed in the first bag body 21 to each of the third bag body 23 and the fourth bag body 24 increases correspondingly.

[0197] Then, the left-hand third bag body 23 and the right-hand fourth bag body 24 each change in shape so as to rise and bulge. On the other hand, the rear-located second bag body 22 receives a decreased amount of beads flow, and therefore rises and bulges to a lesser extent than in the case of not using the first restraining member 48. That is, the second bag body 22 which serves as a backrest part is in a substantially reclining position, thus allowing the user to lie nearly flat on the back on the cushion.

[0198] The amount of flow of the beads, or specifically the amount of movement of the beads varies according to the conditions of restriction by the restraining member (48, 41, 44). The extent of rising motion of the second bag body 22 may be adjusted by varying the condition of restriction by the first restraining member 48 accordingly. For example, in the case

of implementing the first restraining member 48 via the first string body 48, the extent of rising motion of the second bag body 22 is adjusted by varying the inside length dimension and the degree of tightness of the string of the cushion bodies in a state of having a closed drawstring bag-like form.

[0199] Also in the case of using the second restraining member 41 to restrict the amount of flow of the enclosed beads from the first bag body 21 to the third bag body 23, as well as the case of using the third restraining member 44 to restrict the amount of flow of the enclosed beads from the first bag body 21 to the fourth bag body 24, similarly, the extent of rising motion of each of the third bag body 23 and the fourth bag body 24 is reduced.

[0200] The restraining member (48, 41, 44), when one of the bag bodies 21 to 24 (for example, the first bag body 21) is subjected to a load, selectively adjusts the other bag bodies 21 to 24 (for example, the bag bodies 22 to 24) to which the beads enclosed in the one bag body under the load (e.g. the first bag body 21) is to flow, and the amount of beads flow to the bag bodies of destination 21 to 24 (e.g. the bag bodies 22 to 24). This ensures freedom in shaping the beads cushion 1.

[0201] Various improvements may be made in implementing the cushion 1 embodying the present invention. For example, although not shown in the figures, a massage mechanism may be mounted to the bag body 2.

[0202] More specifically, for example, a fifth bag body, not shown, for accommodating the massage mechanism is provided on the outer or inner side of the bag body 2 loaded with the content. That is, the massage mechanism is mounted via the fifth bag body to the bag body 2. The massage mechanism is configured for movement through the interior of the fifth bag body.

[0203] For example, the fifth bag body accommodating the massage mechanism enables massage to be performed on the buttocks, etc. of the user when disposed on the outer side of the first bag body 21, and enables massage to be performed on the back, etc. of the user when disposed on the outer side of the second bag body 22.

[0204] For example, the fifth bag body includes a device movement-restricting member, not shown, to restrict the movement of the massage mechanism. The device movement-restricting member permits free positioning of the massage mechanism.

[0205] For example, the bag body 2 (the cushion body 3) has an interior configured to accommodate a massage mechanism, which may be either of a mechanical type or of an air-bag type, capable of giving the user M massage. That is, at least one of the first to fourth bag bodies 21 to 24 has an interior configured to accommodate the massage mechanism for movement.

[0206] For example, the built-in massage mechanism is configured for movement between the first bag body 21 and the second bag body 22 in a mutually communicating state, and can

be moved to and placed in either of the first bag body 21 and the second bag body 22 by using the first string body 48 (the first restraining member 48).

[0207] More specifically, starting from the state shown in FIG. 11 where the first string body 48 is not in use, for example, the massage mechanism is moved to and placed in the second bag body 22. The enclosed beads are also caused to move to the second bag body 22. At this time, the beads are caused to move so that the second bag body 22 contains somewhat larger amount of the beads. This allows the massage mechanism to be positioned toward the surface side of the second bag body 22 that abuts on user's back.

[0208] As shown in FIG. 12, the first string body 48 is drawn out through the first string insertion opening 40 by pulling on the handgrip of the first string body 48, thus causing the first string insertion part 49 to collapse into a bellows form. Then, the first bag body 21 and the second bag body 22 take on a form shaped like a closed drawstring bag.

[0209] The communication between the first bag body 21 and the second bag body 22 is then restricted, and the massage mechanism is set in place within the second bag body 22 accordingly. That is, the first bag body 21 and the second bag body 22 are brought into a mutually independent state. Under this condition, when the user M sits down on the first bag body 21 while putting the body weight on it, the first bag body 21 becomes a seat part,

and the second bag body 22 becomes a backrest part. The massage mechanism then abuts on the back of the user M to perform massage to the back.

[0210] The above procedure applies to the case of moving the massage mechanism to the first bag body 21. In this case, with the first bag body 21 serving as a seat part, the massage mechanism abuts on the buttocks of the user M to perform massage to the buttocks.

[0211] The massage mechanism may also be moved to and placed in the third bag body 23. In this case, the second string body 41 is used to restrain the movement of the massage mechanism from the third bag body 23. This enables the massage mechanism to perform massage on the treatment target area desired by the user.

[0212] The massage mechanism may also be moved to and placed in the fourth bag body 24. In this case, the third string body 44 is used to restrain the movement of the massage mechanism from the fourth bag body 24. This enables the massage mechanism to perform massage on the treatment target area desired by the user.

[0213] The bag body 2 preferably has a two-layer structure. The bag body 2, when made in a two-layer form, may comprise an outer cloth body (outer cover) which is removable for washing, and an inner cloth body (inner cover) which contains beads.

[0214] Note that the restraining members 48, 41, and 44,

each in the form of a string body or belt for example, for restraining the movement of the content within the bag body 2 may be disposed either on the outer cloth body (outer cover) or on the inner cloth body (inner cover).

[0215] It should be understood that the embodiments as disclosed herein are considered in all respects as illustrative only and not restrictive. In particular, for such matters as not explicitly specified in the disclosure of the embodiments, e.g. working conditions, operating conditions, parameters, and the dimensions, weights, volumes, etc. of the structural components, those that do not depart from the practical range to be normally complied with by persons skilled in the art and that conform to matters of common knowledge among the skilled persons are adopted herein.

[0216] In the above embodiments, the bag bodies are designated as the first to fourth bag bodies 21 to 24, and the restraining members are designated as the first, second, and third restraining members 48, 41, and 44 merely for convenience in illustrating the present invention, and these components may be identified by any given designations accordingly.

Reference Signs List

[0217]

- 1 Cushion
- 2 Bag body
- 3 Cushion body

4	Massage mechanism
5	Cover cushion
6	String body
10	Arm member
11	Treatment element
21	First bag body
22	Second bag body
23	Third bag body
24	Fourth bag body
25	Air bag
26	Air passageway
30	Case body
31	LED light
40	First string insertion opening
41	Second restraining member (Second string body)
42	Second string insertion part
43	Second string insertion opening
44	Third restraining member (Third string body)
45	Third string insertion part
46	Third string insertion opening
48	First restraining member (First string body)
49	First string insertion part
M	User

CLAIMS

1. A message function-equipped deformable cushion,
comprising:

a cushion body, in which free-flowing content is enclosed,
configured to deform into a shape conforming to a figure or posture
of a user; and

a massage mechanism, mounted to the cushion body, for giving
the user massage.

2. The message function-equipped deformable cushion
according to claim 1, wherein

the cushion body includes a bag body that can be loaded
with the content, and

the content is enclosed in the bag body in an amount that
leaves a space part inside the bag body.

3. The message function-equipped deformable cushion
according to claim 1, wherein

the massage mechanism includes a treatment element to give
the user massage.

4. The message function-equipped deformable cushion
according to claim 3, wherein

a light emitter is disposed within the treatment element

or in an area adjacent to the treatment element.

5. The message function-equipped deformable cushion according to claim 1, wherein

a case body is disposed inside the cushion body, and driving equipment is disposed within the case body to drive the message mechanism.

6. The message function-equipped deformable cushion according to claim 5, wherein

a light emitter is disposed on a surface of the case body.

7. The message function-equipped deformable cushion according to claim 1, wherein

a cover cushion to cover the message mechanism is mountable on the cushion so as to be located between the message mechanism and the user.

8. A message function-equipped deformable cushion, comprising:

a cushion body, in which free-flowing content is enclosed, configured to deform into a shape conforming to a figure or posture of a user; and

an air bag, mounted to the cushion body, for giving the user pressing message,

the cushion body including
a bag body, and
bead bodies which are enclosed as the content in the bag
body,

the bag body including
a first bag body dimensioned to be sufficiently large to
receive buttocks of the user,

a third bag body provided at one side of the first bag
body in a lateral direction, the third bag body being configured
to extend in one direction in communication with the first bag
body, and

a fourth bag body provided at the other side of the first
bag body in the lateral direction, the fourth bag body being
configured to extend in the other direction in communication
with the first bag body,

the third bag body and the fourth bag body being opposed
to each other,

the air bag being disposed at the third bag body and/or
the fourth bag body.

9. The massage function-equipped deformable cushion
according to claim 8, wherein

a space part of the first bag body and a space part of
the third bag body communicate with each other, and the space
part of the first bag body and a space part of the fourth bag

body communicate with each other, and wherein,

when a load is applied to the first bag body, portions of the bead bodies lying in the space part of the first bag body move to the space part of the third bag body and to the space part of the fourth bag body, thus causing each of the third bag body and the fourth bag body to change in shape so as to extend outward in the lateral direction in an upwardly rising state.

10. The massage function-equipped deformable cushion according to claim 9, wherein

the third bag body and the fourth bag body, when extending outward in the lateral direction in the upwardly rising state, hold the buttocks of the user situated on the first bag body in between.

11. The massage function-equipped deformable cushion according to claim 10, wherein

the air bag of the third bag body and the air bag of the fourth bag body, when inflated simultaneously, laterally hold the buttocks of the user in between.

12. The massage function-equipped deformable cushion according to claim 8, wherein,

to make the cushion serviceable to persons of varying body sizes, ranging from those of large build to those of small build,

dimensions of the third bag body and the fourth bag body and/or a distance between the third bag body and the fourth bag body in a width direction are/is determined in accordance with a body size of a user having a small build.

13. The massage function-equipped deformable cushion according to claim 8, wherein

the first bag body is provided with the air bag.

14. The massage function-equipped deformable cushion according to claim 8, wherein

a second bag body is provided so as to extend backward from the first bag body in communication with the first bag body, and

the space part of the first bag body and a space part of the second bag body communicate with each other, and wherein,

when a load is applied to the first bag body, portions of the bead bodies lying in the space part of the first bag body move to the space part of the second bag body, thus causing the second bag body to change in shape so as to extend backward in an upwardly rising state.

15. The massage function-equipped deformable cushion according to claim 14, wherein

the second bag body is provided with the air bag.

16. A message function-equipped deformable cushion,
comprising:

a cushion body, in which free-flowing content is enclosed,
configured to deform into a shape conforming to a figure or posture
of a user; and

a mechanical massage mechanism, mounted to the cushion
body, for giving the user massage,

the cushion body including

a bag body, and

bead bodies which are enclosed as the content in the bag
body,

the bag body including

a first bag body dimensioned to be sufficiently large to
receive buttocks of the user,

the massage mechanism being disposed at the first bag body.

17. A message function-equipped deformable cushion,
comprising:

a cushion body, in which free-flowing content is enclosed,
configured to deform into a shape conforming to a figure or posture
of a user; and

a mechanical massage mechanism, mounted to the cushion
body, for giving the user massage,

the cushion body including

a bag body, and
bead bodies which are enclosed as the content in the bag
body,
the bag body including
a first bag body dimensioned to be sufficiently large to
receive buttocks of the user, and
a second bag body configured to extend backward from the
first bag body in communication with the first bag body,
the message mechanism being disposed at the first bag body
and/or the second bag body.

18. The message function-equipped deformable cushion
according to claim 16, wherein

the message mechanism can be adjusted in position relative
to the user by varying the shape of the cushion body with movement
of the bead bodies within the first bag body.

19. The message function-equipped deformable cushion
according to claim 17, wherein

the message mechanism can be adjusted in position relative
to the user by varying the shape of the cushion body with movement
of the bead bodies within the first bag body and/or within the
second bag body.

20. The message function-equipped deformable cushion

according to claim 17, wherein

a degree of inclination of the second bag body with respect to the first bag body can be adjusted by varying a density of the bead bodies within the second bag body.

21. The massage function-equipped deformable cushion according to claim 16, wherein

a massaging force from the massage mechanism can be adjusted by varying a density of the bead bodies within the first bag body.

22. The massage function-equipped deformable cushion according to claim 17, wherein

a massaging force from the massage mechanism can be adjusted by varying a density of the bead bodies within the first bag body and/or within the second bag body.

23. The massage function-equipped deformable cushion according to claim 16 or claim 17, wherein

the massage mechanism includes
an arm member provided at its tip with a treatment element,
a driver to output a rotational driving force,
a rotating shaft to rotate under the outputted rotational driving force, and
a rock converter to convert rotation of the rotating shaft

into rocking motion to rock the arm member in a manner to enable the treatment element to effect at least kneading massage operation.

24. The massage function-equipped deformable cushion according to claim 23, wherein

a light emitter is incorporated in the treatment element.

25. A deformable cushion, in which free-flowing content is enclosed, configured to deform into a shape conforming to a figure or posture of a user, the deformable cushion comprising:

a cushion body comprising a bag body loaded with the content,

the cushion body including

a restraining member to restrain movement of the content by partitioning the bag body into at least two or more bag body segments.

26. The deformable cushion according to claim 25, wherein

the restraining member includes a first restraining member to restrain movement of the content by partitioning the bag body into a first bag body and a second bag body.

27. The deformable cushion according to claim 26, wherein

the first bag body is turned to a seat part on which the

user can sit down by using the first restraining member, and the second bag body is shaped into a desired form and allowed to lie in a standing position toward rear with respect to the first bag body by using the first restraining member.

28. The deformable cushion according to claim 25, wherein the restraining member includes a second restraining member to restrain movement of the content by partitioning the bag body into a first bag body and a third bag body.

29. The deformable cushion according to claim 28, wherein the first bag body is turned to a seat part on which the user can sit down by using the second restraining member, and the third bag body is shaped into a desired form and allowed to lie in a standing position toward left with respect to the first bag body by using the second restraining member.

30. The deformable cushion according to any one of claim 25, claim 26, and claim 28, wherein the restraining member includes a third restraining member to restrain movement of the content by partitioning the bag body into a first bag body and a fourth bag body.

31. The deformable cushion according to claim 30, wherein the first bag body is turned to a seat part on which the

user can sit down by using the third restraining member, and the fourth bag body is shaped into a desired form and allowed to lie in a standing position toward right with respect to the first bag body by using the third restraining member.

32. The deformable cushion according to claim 25, wherein the content is enclosed in an amount smaller than an interior volume of the bag body to provide the space part within the bag body for deformation of the cushion body.

33. The deformable cushion according to claim 25, wherein the bag body is provided with a massage mechanism.

34. The deformable cushion according to claim 33, wherein a fifth bag body to accommodate the massage mechanism is provided on an outer or inner side of the bag body loaded with the content, and the massage mechanism is movable within the fifth bag body.

35. The deformable cushion according to claim 34, wherein the fifth bag body includes a device movement-restricting member to restrict movement of the massage mechanism.