The present invention relates to hip-up underwear which prevents the hip of a wearer from dropping downward during daily life and corrects the body shape of the wearer. More particularly, the present invention relates to hip-up underwear using an elastic band, in which the elastic band is arranged at the rear surface of the underwear so as to cover the entirety of the waist and hip of the wearer, and the elastic band is fastened on the abdominal area of the wearer after the wearer puts on the underwear so as to prevent the hip of the wearer from being squashed flat and from being contorted on a mattress during sleeping. The hip-up underwear of the present invention can be worn during daily life or during sleep so as to shape-up the hip and gather, compress, and cover the belly fat of the wearer, thereby remarkably improving the effects of body shape correction through hip-up and compressing the belly fat of the wearer.
FIG. 4
HIP-UP UNDERWEAR USING AN ELASTIC BAND

FIELD OF INVENTION

The present invention relates to hip-up underwear which prevents the hip of a wearer from dropping downward during daily life and corrects the body shape of the wearer. More particularly, the present invention relates to hip-up underwear using an elastic band, in which the elastic band is arranged at the rear surface of the underwear so as to cover the entirety of the waist and hip of the wearer, and the elastic band is fastened on the abdominal area of the wearer after the wearer puts on the underwear so as to prevent the hip of the wearer from being squashed flat and from being contorted on a mattress during sleeping. The hip-up underwear of the present invention can be worn during daily life or during sleep so as to shape-up the hip and gather, compress, and cover the belly fat of the wearer, thereby remarkably improving the effects of body shape correction through hip-up and compressing the belly fat of the wearer.

BACKGROUND OF INVENTION

In the past, underwear that corrects the drooping hip shape, and “functional underwear equipped with hip volume up function” (Korea Utility Model Gazette No. 20-0389565) were disclosed as hip-up underwear technology to produce voluminous hip. Such “Functional underwear equipped with hip volume up function” has a pair of pockets at the back of underwear made of elastic material so that pads can be inserted into the pockets to make the hip look voluminous, and it is a technology to make flat and drooping hip look voluminous and make a curvy and beautiful hip line.

When pads are inserted into the pockets like this, the hip of the wearer looks voluminous while she is standing but when she lies down on a bed or floor, her bottom is squashed and the hip is not voluminous anymore, thus it does not correct the shape of hip actually.

In other words, above technology makes flat or drooping hip look voluminous just like the pads in the brassier make breasts look fuller, but it doesn’t change the shape of hip fundamentally.

Moreover, while the wearer is sleeping, the pads press down the hip or push it to one side and the body shape might be ruined.

Therefore, various underwear garments have been disclosed to correct or improve above problem.

These include Korean Utility Model No. 20-0447180 titled “Underwear to correct body shape” invented and registered by this applicant, Korean Utility Model No. 20-0448514 titled “Underwear to correct body shape”, Japanese Utility Model No. 3041478 titled “Corset,” and U.S. Pat. No. 4,709,692 titled “Thigh mounted lower back support belt.”

The structures and effects of existing technologies stated above are as follows.

“Underwear to correct body shape” (50) is shown in FIG. 5. It is made of elastic material, and it consists of panties (52) with a waist band installation part (51) around the top circumference of panties, a waist band (53) that is made of elastic material and whose one side is fastened to one side of the waist band installation part (51) and whose other side is fastened to the other side of waist band installation part (51); and elastic bands (54) that have longitudinal elasticity, and one side of each elastic band is fastened to the lower right or left side of the rear of the panties (52) and its other side is to be pulled upward and fastened to the waist band installation part (51).

Above underwear to correct body shape (50) uses elastic bands with longitudinal elasticity on both sides of the panties and one side of elastic band is fastened to the panties while the other side is made to be fastened flexibly as it is pulled up and fastened to the waist band, and it corrects the hip shape of the wearer because the hip is continuously pulled up during sleep.

As shown in FIG. 6, Korean Utility Model No. 20-0448514 titled “Underwear to correct body shape” (60) consists of panties (61) made of elastic material; a waist band (62) that is made of elastic material with longitudinal elasticity to tighten the waist and placed around the top circumference of the panties (61); fastening devices at the bottom (63) of panties (61); supporting elastic bands (64) that are placed horizontally on both sides above the fastening device at the bottom (63) to support the hip upwards; elastic bands (65) each of whose one side is fastened to the fastening device at the bottom (63) or support elastic band (65); and fastening device at the top (66) that fastens the waist band (62) to the top of elastic band (65).

Above underwear to correct body shape (60) corrects the hip shape of the wearer as the hip is continuously pulled up all day long since it has elastic bands with longitudinal elasticity on both sides of panties and one side of the elastic band is fastened to the bottom part of the panties while the other side is to be pulled up and fastened to the waist band.

As shown in FIG. 7, Japanese Utility Model No. 3041478 titled “Corset” (70) consists of corset body (74) made of pelvic part (71), waist part (72), and rib part, a pair of pelvis correction pieces (76, 77) that are placed symmetrically at the back of pelvic part (71) and have fastening part (75) at the end to tighten and correct the pelvis, a pair of rib correction pieces (79, 80) that are placed symmetrically at the back of rib part and have fastening part (78) at the end to tighten the rib, and crotch part (81) made of net and installed at the crotch.

Above corset (70) is used as a medical device. When wearing the corset (70), a pair of pelvis correction pieces (76, 77) cover up the upper part of the hip and the entire pelvic area, and a pair of rib correction pieces (79, 80) cover up the rib and upper waist part. Therefore, when the waist area is tightened using a pair of pelvis correction pieces (76, 77), the entire pelvis is tightened and the angle of pubic arch is reduced and thus pelvic bones are corrected and fat is prevented from going down to the hip, thigh, or lower abdomen, and as a result, it is beneficial for diet. Moreover, when a pair of rib correction pieces (79, 80) are used to tighten the rib, the angle of rib is reduced, which prevents fat from going up to upper abdominal area, and as a result, it is beneficial for body shape correction and diet.

However, above corset (70) is used as a medical device to correct the pelvic and rib bones by tightening the pelvic and rib bones using a pair of pelvis correction pieces (76, 77) and a pair of rib correction pieces (79, 80).

As shown in FIG. 9, U.S. Pat. No. 4,709,692 titled “Thigh mounted lower back support belt” (90) consists of a pair of leather straps (91, 92) to wrap around and bind the thighs, leather fastening area (91a, 92a) to fasten above pair
of leather straps (91.92), a pair of vertical hip straps (93.94) that are right angle to above leather strap and go up to the waist along the hip, and a support belt (96) that is placed above a pair of leather straps (93.94) and has a buckle (95) so that it can wrap up the hip and be fastened on the waist.

[0017] With the belt (90), a pair of leather straps (91.92) are fastened to the thighs, and a pair of vertical hip straps (93.94) are fastened to the support belt (96) while they are supporting the hip, thus the back is supported by the pulling force from the thigh and it is used as a medical device to heal the back.

DETAILED DESCRIPTION OF INVENTION

Problems to be Solved Technically

[0018] Above underwear garments (50.60) can’t wrap up the entire hip because only a few bands are used and they can be quite uncomfortable due to skin irritation from the use of Velcro.

[0019] And the corset (70) that is registered as Japanese utility model is a medical device to correct the back and rib as well as a diet device to prevent fat from moving from the thigh or upper abdomen. But it can’t correct the shape of drooped or changed hip because fat is already in it.

[0020] Above belt (90) that obtained a U.S. patent is a medical device that heals the back by supporting the back using a device that is fastened to the thigh. It is inconvenient to wear it all the time and it is not effective when the wearer is sleeping and it can’t correct the body shape through supporting the hip.

[0021] This invention is designed to solve such problems and the purpose of this invention is to provide hip-up underwear using an elastic band, in which an elastic band wing is placed lengthwise at the back of the panties made of elastic material, and at the upper center of elastic band wing, a fastening ring to fasten it with the panties is placed, and at both ends of the lower part of elastic band wing, fastening device that goes around the thigh part of the back side of the panties horizontally is placed so that it can be fastened to the lower back side of the panties, and when the both ends of the upper part of elastic band wing are pulled together to the front side and fastened to the belly button, the lower ends of elastic band wing push up the hip due to the fastening device, as a result, the shape of drooping hip is changed, fat in the sides and abdomen is gathered and the shape of abdomen is corrected.

Means to Solve the Problems

[0022] In hip-up underwear using an elastic band (100) that corrects the shapes of abdomen, sides, and hip using an elastic band to achieve above purpose, the said hip-up underwear using an elastic band (100) consists of panties (110) made of elastic material, a fastening device at the bottom (130) at each lower back side of the panties (110), an elastic band wing (140) that is connected to and fastened to the fastening device at the bottom (130) and wraps up the hip elastically, a wing fastening device (150) that is attached at each end of the elastic band wing (140) and fastened at the front of the abdomen, and the said elastic band wing (140) consists of upper band wing part (141) with certain width that wraps up the pelvis from the back and tightens the abdomen and is fastened at the front, and lower band wing part (142) that is fastened to the fastening device at the bottom (130) and gradually widens as it goes up and is integrated into the upper band wing part (141).

Effects of Invention

[0023] Therefore, this invention, hip-up underwear using an elastic band corrects the shapes of hip and abdomen of the wearer by making the hip to be continuously pulled up and making the abdomen to be tightened up all day long as it has an elastic band wing that is attached lengthwise at the back of panties made of elastic material, and one side of elastic band wing is fastened to the fastening device placed horizontally at the bottom, and the other side is made to be fastened at the front by pulling being pulled together so that the upper part of this invention wraps up the sides and abdomen.

This invention, hip-up underwear using an elastic band has a fastening hook device at the upper part of elastic band wing to be fastened to the panties so that it is not separated from the panties and folded back and becomes one with the panties for enhanced effect.

BRIEF DESCRIPTION OF DRAWINGS

[0024] FIG. 1 shows the front and back views of this invention, “Hip-up underwear using an elastic band.”

[0025] FIG. 2 shows the front view when this invention, “Hip-up underwear using an elastic band” is worn.

[0026] FIG. 3 shows the side view when this invention, “Hip-up underwear using an elastic band” is worn.

[0027] FIG. 4 shows the fastened status of the fastening hook device of the fastening device that fastens the panties to the elastic band wing of this invention, “Hip-up underwear using an elastic band.”

[0028] FIG. 5 and FIG. 6 show the existing hip-up underwear, FIG. 7 shows the existing corset to protect the back, and FIG. 8 shows the thigh mounted lower back support belt.

EXPLANATIONS OF SYMBOLS


BEST WAY TO EMBODY THIS INVENTION

[0030] Explanation is made below so that anyone with common knowledge in the field can embody it while referring to the attached drawings that show desirable embodiments of this invention.

[0031] As show in FIG. 1 and FIG. 3, this invention titled “Hip-up underwear using an elastic band (100),

[0032] consists of panties (110) made of elastic material, such as spandex that is usually used for women’s underwear,

[0033] an elastic band wing (140) that has a fastening hook device (120) that is located at the back of the panties (110) and whose upper center is to be connected and fastened to the panties (110) and fastening devices at the bottom (130) that are located horizontally just below the hip and fastened to the panties (110), and

[0034] a wing fastening device (150) that is located at each end of the upper part of elastic band wing (140) to be fastened near the belly button of abdomen.

[0035] And the elastic band wing (140) consists of upper band wing part (141) with certain width that wraps up the pelvis from the back to tighten the abdomen and to be fas-
tened in front, and lower band wing part (142) that is fastened to the fastening device at the bottom (130) and gradually widens as it goes up to wrap up the entire hip and integrates into the upper band wing.

[0036] And on each side of the upper elastic band wing part (141), there is a wing fastening device (150) to tighten the abdomen when it is fastened.

[0037] The fastening hook device (120) consists of first fastener (121) that is located on the panties (110) and the second fastener (122) that is located on the upper band wing part (141) of elastic band wing (140) and to be fastened by getting inserted into the first fastener (121).

[0038] Therefore, when the first fastener (121) is inserted into the second fastener (122) (or vice versa) and connected together, the elastic band wing (140) will not be folded back from the panties (110).

[0039] Moreover, other fastening devices, such as buttons and button holes, female buttons and male buttons, or Velcro tape could be placed on the locations of first fastener (121) and second fastener (122).

[0040] And one end of the wing fastening device (150) has several rows of eyes while the other end has several hooks to adjust the waist size and it is fastened by inserting one hook into one eye.

[0041] As a way to fasten the panties (110) to the elastic band wing (140), other fastening device can be used in addition to the said fastening device (120). In other words, on either side of the first fastener (121) on the panties (110), one or more female buttons can be placed at an interval and on either side of the second fastener (120) on the elastic band wing (140), male buttons can be placed to fit into the female buttons.

[0042] This is to prevent the elastic band wing (140) from getting folded back from the panties (110) by fastening the panties (110) to the elastic band wing (140) all the time using the first fastener (121) and the second fastener (122), or make the fastening of the panties (110) and the elastic band wing (140) more secure by fastening female buttons to the male buttons.

[0043] For the fastening device, not only pairs of female and male buttons but also snaps, Velcro tape, or buttons and button holes could be used.

[0044] The fastening device at the bottom (130) is made of elastic band with certain width so that the lower band wing part (142) of the elastic band wing (140) is fastened to the panties (110) securely.

[0045] In the said underwear (100) of this invention structured as stated above, as shown in FIGS. 2 and 3, when a person puts on the panties (110), pulls both ends of upper band wing part (141) formed on the elastic band wing (140) to the arrow directions and fastens the wing fastening device (150) on the belly button area, the fat in the sides and abdomen is gathered and tightened and no more fat can enter, and at the same time the lower band wing part (142) formed on the elastic band wing (140) is pulled upward to the arrow direction and the drooping hip is pulled up and maintained.

[0046] At this time, the lower band wing part (142) is wide enough to wrap up the hip entirely and pull it upward.

[0047] And the panties (110) can be worn over regular panties or worn as regular panties or a girdle.

[0048] Elastic material is used for the panties (110) because if other parts of the panties (110) are not fit tightly when the hip is pulled up by the elastic band wing (140), the body shape might be corrected unevenly.

[0049] In other words, only when the elastic band wing (140) pulls up the hip upwards while all the flesh inside the panties (110) is tightened up, the body shape is corrected effectively.

[0050] Rubber band can be put inside the top circumference of the panties (110) so that the panties fit snugly around the wearer’s waist.

[0051] When the elastic band wing (140) at the back of the panties (110) is pulled up and pulls up the hip, if there is no fastening device at the top, the top part of the pulled up elastic band wing (140) will roll down, but as the wing fastening device (150) is located at both ends of the wing, and when it is fastened on the abdomen, i.e. near the belly button, the elastic band wing wraps up the hip and maintains the shape of pulled up hip.

[0052] Where the width of the wing part of elastic band wing (140) is wide enough to wrap up the sides and abdomen, the shape of hip is corrected and the shape of abdomen can be corrected as well by tightening the abdomen.

[0053] And it is desirable for the wing fastening device (150) on both ends of the elastic band wing (140) to have the same form as the waist band and its two sides to be fastened by eyes and hooks, zipper, Velcro tape, or buttons.

[0054] When hooks and eyes are used for the wing fastening device (150), use more than five rows to improve the fastening effect on the abdomen. And if more than 2 rows of hooks and eyes are provided, it becomes more effective since abdomen tightening strength can be controlled.

[0055] If non or less elastic material is used for the entire or part of wing fastening device (150) of upper band wing part (141) or if part of it is reinforced from inside, the shape of abdomen can be corrected more effectively.

[0056] In addition, if more than one stiffener is added vertically on the right and left of upper band wing part (141), it is possible to prevent it from getting folded horizontally or wrinkled.

[0057] The fastening device at the bottom (130) is placed horizontally at the bottom of the back side right beneath the hip and fastens the lower end of lower band wing part (142) and supports the hip upward from bottom when the elastic band wing (140) is pulled upward to maximize the effect of elastic band wing (140).

[0058] And for the fastening device at the bottom (130), more than two wide or narrow bands can be installed and when connecting the bottom part of lower band wing part (142) to the fastening device at the bottom (130), it is desirable to sew so that crotch part of the lower band wing (142) is connected.

[0059] And for the elastic band wing (140), using elastic and breathable material will achieve partial diet effect by evaporating sweat quickly in addition to the hip up effect.

[0060] The length of the panties (110) can vary as desired ranging from upper thigh to blow the knee and the torso length of the panties (110) can vary also ranging from belly button area to the chest area.

[0061] And the width of upper band wing part (141) can vary according to the torso length of the panties (110).

[0062] If the panties (110) are used as regular panties or a girdle, it is possible to make the elastic band wing (140) be in direct contact with the wearer’s hip by cutting the back of the panties (110) and make the elastic band wing (14) cross the cut area.
[0063] When acupressure bumps are placed on the inner side of elastic band wing (140), acupressure effect as well as hip up effect can be obtained.

[0064] It is also possible to place the elastic band wing (140) on the inside of the panties (110) rather than the outside.

What is claimed is:

1. Hip-up underwear using an elastic band (100) that corrects the shapes of abdomen, sides, and hip using an elastic band,
   the said hip-up underwear using an elastic band (100) consists of
   panties (110) made of elastic material,
   a fastening device at the bottom (130) at each lower back side of the panties (110),
   an elastic band wing (140) that is connected to and fastened to the fastening device at the bottom (130) and wraps up the hip elastically,
   a wing fastening device (150) that is attached at each end of the elastic band wing (140) and fastened at the front of the abdomen,
   and the said elastic band wing (140) consists of upper band wing part (141) with certain width that wraps up the pelvis from the back and tightens the abdomen and is fastened at the front,
   and lower band wing part (142) that is fastened to the fastening device at the bottom (130) and gradually widens as it goes up and is integrated into the upper band wing part (141).

2. Hip-up underwear using an elastic band according to claim 1 in which non elastic material can be used or patched inside for all or part of the upper band wing (141).

3. Hip-up underwear using an elastic band according to claim 2 in which a fastening device is provided at the back of the panties (110) to prevent the elastic band wing (140) from getting folded back from the panties (110), and for the fastening device, a button and a button hole, a snap, or Velcro tape can be used to prevent the elastic band wing (140) from getting folded back from the panties (110).

4. Hip-up underwear using an elastic band according to claim 1 in which a fastening device at the bottom (130) is placed horizontally right beneath the hip to be fastened to each lower end of the elastic band wing (140) and to wrap up the entire hip and support the hip upwards.

5. Hip-up underwear using an elastic band according to claim 2 in which a fastening hook device (120) is placed at the back of the panties (110) so that the elastic band wing (140) is not folded back from the panties (110), and the fastening hook device (120) consists of first fastener (121) that is placed on the panties (110) and the second fastener (122) that is placed on the upper band wing (141) formed on the elastic band wing (140), and the first fastener (121) is to be inserted into the second fastener (122).

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