

FIG. 5

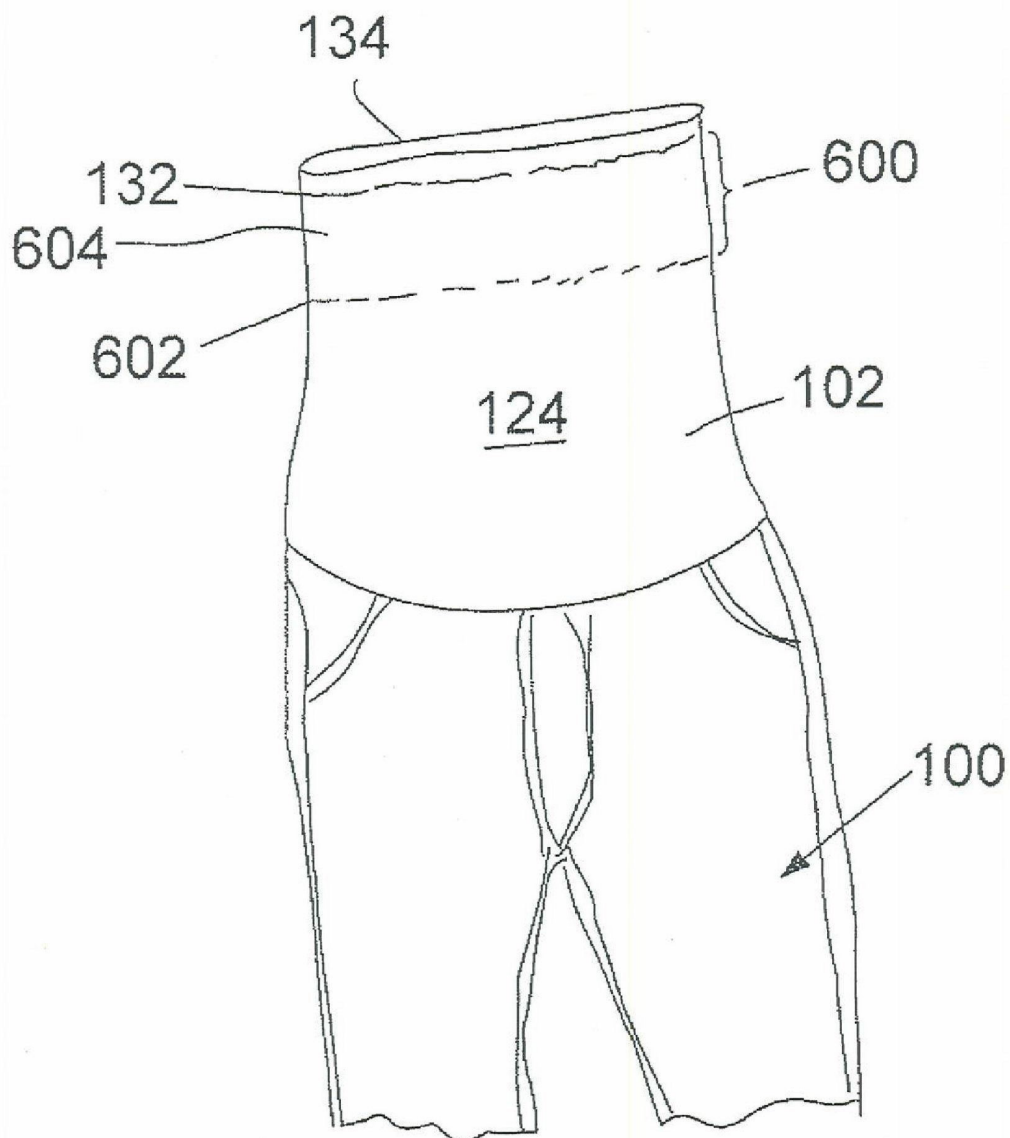


FIG. 6

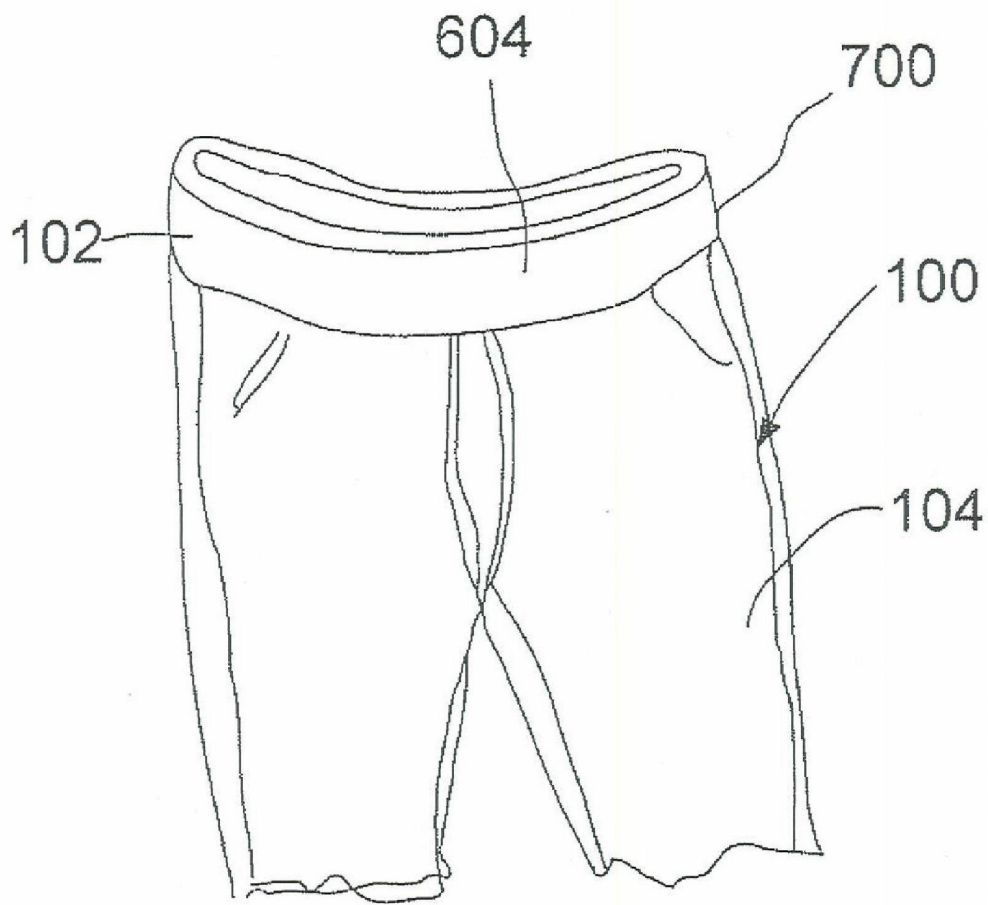


FIG. 7

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BELLY COVERING GARMENT

Matter enclosed in heavy brackets [] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

FIELD OF THE INVENTION

The present invention relates to a garment worn during different stages of pregnancy and different stages of postpartum body changes.

BACKGROUND OF THE INVENTION

Garments intended to cover a wearer's body below the abdomen or belly during various stages of pregnancy have been manufactured as knits or woven fabrics. Some of the knits or woven fabric garments are constructed with an elastic belt or waist band which caused discomfort when tightened about the body. Some of the garments have stretchable fabric panels sewn into place with sewn seams. Such garments cause discomfort due to the presence of the sewn seams, urged by elastic stretching of the panels pressing against the torso. Moreover, women have complained that such garments are difficult to keep in place, as they gradually slip downward while they are being worn.

Denim jeans or trousers have been recycled by removing the waistband at the front of the jeans and replacing the same with an elastic band that cradles a growing abdomen. Alternatively, denim jeans or trousers are manufactured without a waistband at the front so that a separate band can be attached at the front.

Accordingly, a need exists for a garment that covers and fits a growing abdomen during different stages of pregnancy. Such a garment is required to stay up, and desirably would fit comfortably while being worn. Moreover, such a garment would stay up when worn over different body types.

SUMMARY OF THE INVENTION

A purpose of the invention is to provide a garment that adapts to cover and fit a growing abdomen during pregnancy, wherein the garment stays up when worn.

A garment comprises a garment upper portion and a garment lower portion. The garment upper portion has a belly panel that is expansible to cover and fit over a growing abdomen during different stages of pregnancy. The garment lower portion has a first torso encircling circumference that recedes downward to make way for expansion of the belly panel. The garment upper portion has a second torso encircling circumference to hold the garment up and in place over the torso.

An embodiment of the garment is adjustable to encircle different body types. Another embodiment of the invention provides a garment that fits comfortably while being worn.

An embodiment of the garment comprises an adjustable torso encircling circumference that is adjustable in girth to encircle different body types.

An embodiment of the upper portion of the garment comprises a seamless tubular elastic fabric to stretch elastically and fit different body types.

An embodiment of the abdomen covering area comprises an elastic fabric.

An embodiment of the abdomen covering area comprises an elastic fabric that is contractible elastically to cover an abdomen during different stages of post partum body changes.

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According to an embodiment of the invention, an expansible tubular upper portion of the garment is seamless to fit comfortably while being worn.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a front view of a garment according to the present invention.

FIG. 1A is a view similar to FIG. 1, and discloses a body panel covering a growing abdomen.

FIG. 2 is a view of a backside portion of the garment disclosed by FIG. 1.

FIG. 3 is view of a front portion of another embodiment of a garment.

FIG. 4 is view of a backside portion of another embodiment of a garment.

FIG. 5 is a view of a backside portion of yet another embodiment of a garment.

FIG. 6 is front view of a portion of another embodiment of a garment.

FIG. 7 is front view of a portion of yet another embodiment of a garment.

DETAILED DESCRIPTION OF THE INVENTION

FIG. 1 discloses a garment 100 for encircling a lower torso portion of a wearer of the garment 100. The garment 100 comprises a garment upper portion 102 and a garment lower portion 104. A lower end perimeter 106 of the garment upper portion 102 is attached to a corresponding upper end perimeter 108 of the garment lower portion 104. The garment lower portion 104 comprises, for example, a pair of trousers, such as, denim jeans. Alternatively, the garment lower portion 104 comprises a skirt depicted in FIG. 1 in phantom outline.

With reference to FIGS. 1 and 2, each leg of the pair of trousers is constructed with sewn seams. Outer side seams 110, 112 extend continuously from top to bottom of the trousers, or garment lower portion 104. Further, each leg is constructed with inner side seams 114, 116 joining a front center seam 118 of the trousers and a back side, curved center seam 200, FIG. 2, of the trousers. For example, the front center seam 106 defines a sewn "zipper less" fly front. The back side of the trousers, FIG. 2, is sewn with a back side perimeter seam 202 extending horizontally across the back side of the trousers from the outer side seams 110, 112 to the back side center seam 200. If pockets are desired, the legs of the trousers are constructed, for example, with a front pockets 120, 122 and back pockets 204, 206.

FIG. 2 discloses an embodiment of the trousers, or garment lower portion 104, having a partial waistband 208 joining and extending from the side seams 110, 112 of the trousers and extending across a back side of the trousers or garment lower portion 104. The waistband 208 is sewn onto the perimeter seam 202 on the back side. The waistband 208 tapers toward the side seams 110, 112 and widens across the back side, and has a center seam 210 to shape the waistband 208 with a curvature above a wearer's pelvis, and for torso coverage especially when sitting or bending.

In FIG. 1, the garment upper portion 102 has a belly panel 124 to provide an abdomen covering area. The belly panel 124 is expansible, for example, when made of a stretchable fabric, to cover and fit over a growing abdomen during different stages of pregnancy, FIG. 1A. The belly panel 124 has a bottom portion 128 that projects downward with a parabolic shape, especially when covering a growing abdomen, FIG. 1A. The perimeter 108 of the garment lower portion 104 provides a first torso encircling circumference 126 that

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recedes downward with a parabolic shape adjacent to and below the bottom portion 128 of the belly panel 124 to make way for expansion of the belly panel 124 when covering a growing abdomen during various stages of pregnancy. The parabolic shape includes a shallow curvature, or, alternatively includes a more pronounced curvature. The belly panel 124 extends at least partially under the abdomen of the garment wearer to meet and join the bottom portion 128 of the belly panel 124 with the parabolic receding circumference 126 of the garment lower portion 104.

According to an embodiment of the invention, at least the belly panel 124 comprises a stretchable fabric that is woven or knitted with elastic, stretchable strands. The stretchable fabric is expansible by stretching elastically to cover and fit over the growing abdomen, FIG. 1A. Further, the stretchable fabric is contractible elastically to cover a shrinking abdomen during different stages of post partum body changes. The belly panel 124 also has foreseeable alternative functions, for example, to cover an abdomen during different stages of torso weight gains and losses, or to fit over respective torsos of different body types.

In FIGS. 1 and 2, the garment upper portion has a top tubular perimeter hem 130 made by folding over a top edge margin of the stretchable fabric, and either tubular knitting or sewing the folded fabric to the inside surface of the fabric, and to create a top perimeter knitted hem stitch 132 as disclosed in FIG. 1. The perimeter of the garment upper portion 102 has a torso encircling circumference 134 to hold the garment 100 up and in place over the torso. Advantageously, the entire garment 100 is held up and in place. An embodiment of the garment upper portion 102 comprises stretchable fabric to adjust the girth of the second torso encircling circumference 134 in conformance with different body types. According to an embodiment of the invention, the torso encircling circumference 134 extends along the upper end of the belly panel 124. In FIG. 1A, the belly panel 124 extends at least somewhat above the maximum girth of the abdomen, even during a later stage of pregnancy, such that the belly panel 124 positions the torso encircling circumference 134 at least somewhat above the location of maximum girth to resist slipping down over the abdomen.

An embodiment of the garment upper portion 102 comprises a tubular structure to encircle a torso of a wearer of the garment 100. The tubular structure comprises a stretchable fabric woven or knitted with elastic, stretchable strands. The belly panel 124 comprises a portion of the stretchable fabric. The tubular structure is adaptable to cover and fit different body types by being elastically expansible and contractible. Different body types have different muscle mass distributions and spinal columns of different curvatures, which make the tubular structure conform to the different body types by expanding and contracting in different locations and amounts when worn by the different body types. The tubular structure is elastically expansible to widen the tubular girth at selected locations and amounts where needed to fit a body type, and is elastically contractible to narrow the tubular girth at selected locations and amounts where needed to fit the body type.

In FIGS. 1 and 2, the tubular structure is shaped and formed as a one-sheet hyperboloid cylinder to fit a body type having a tapered torso that tapers approximately from shoulder to waist. The perimeter profile of the one-sheet hyperboloid cylinder has hyperbolic shaped sides. Alternatively, the tubular structure is shaped and formed as a straight-sided cylinder, for example, as disclosed in FIG. 6. The perimeter profile of the straight sided cylinder has substantially straight sides.

Preferably, the stretchable fabric is woven or knitted to form a continuous, seamless tubular structure, such that the

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garment 100 is comfortable to wear due to the absence of seams that would tend to press against the torso.

FIG. 3 discloses an alternative embodiment in which the garment upper portion 102 is provided with belly cradling support in the form of a series of sewn stitches or knitted tension at 300, 302, 304, 306, 308, 310, 312, and 314 in the belly panel 124. The knitted tension or stitches extend along multiple stitch paths grouped in an elliptical pattern that curves so as to cradle a curved growing abdomen, FIG. 1A, during various stages of pregnancy.

FIG. 4 discloses an alternative embodiment in which the backside of the garment upper portion 102 is provided with spinal column and back support for a wearer of the garment, in the form of a series of sewn supporting stitches or knitted tension at 400, 402, 404, 406, 408, 410, 412, 414, 416, 418 in the fabric, wherein the supporting knitted tension or stitches stiffen the fabric at the backside of the garment upper portion 102 to provide spinal and back support of the wearer of the garment 100. For example, the series of supporting stitches are arranged along multiple stitch paths grouped in a hyperbolic pattern or other curved pattern along an axis extending substantially vertically along a spinal supporting section of the fabric. FIG. 5 discloses an alternative pattern of supporting stitches 500, 502, 504, 506, 508, 510, 512, 514 in the fabric, wherein the supporting stitches are arranged along multiple stitch paths. For example, the stitch paths are shown as being grouped in a truncated, v-shaped pattern.

FIG. 6 discloses the garment upper portion 102 comprising a fabric woven or knitted to form a tubular structure, wherein the fabric of the tubular structure is doubled back on itself downward from the top circumference 134 thereof to form a double-layer tubular structure 600 that extends downward at least for a portion of the garment upper portion 102. The layers of the double-layer tubular structure 600 are sewn together with a tubular perimeter drop stitch 602. The layers are further sewn with a top, tubular perimeter hem stitch 132 as described in FIG. 1. In an alternative embodiment disclosed by FIG. 6, the fabric is doubled back over an inner tubular layer of stretchable fabric 604, shown in phantom outline by and between the stitches 132, 602, that is flatly layered and sewn in between the two tubular layers of the double layer fabric. The three tubular layers are sewn together with the top, tubular perimeter drop stitch 602 and the top, tubular perimeter hem stitch 132 as described in FIG. 1. The inner layer 604 of stretchable fabric provides the belly panel 124 with the capability for resilient expansion. In another embodiment, the double layer fabric comprises a stretch fabric woven or knitted with elastically stretchable and contractible yarns, providing the belly panel with the capability for resilient expansion.

FIG. 7 discloses that the garment 100 of FIG. 6 is convertible to comprise a bottom garment without a top, the garment upper portion 102 is foldable toward the garment lower portion 104 to provide a folded band 700 on the garment lower portion 104, which is to be worn solely as a garment bottom 104 having the folded band 700, and having no top. Each of the other embodiments of the garment 100 is similarly convertible by adding the stretchable fabric 604 to the upper garment portion 102 of the other embodiment of the garment 100, and folding the garment upper portion 102 toward the garment lower portion 104 to provide a folded band 700 on the garment lower portion 104 of the other embodiment of the garment 100.

This description of the exemplary embodiments is intended to be read in connection with the accompanying drawings, which are to be considered part of the entire written description. In the description, relative terms such as "lower,"

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“upper,” “horizontal,” “vertical;,” “above,” “below;,” “up;,” “down;,” “top” and “bottom” as well as derivatives thereof (e.g., “horizontally;,” “downwardly;,” “upwardly;,” etc.) should be construed to refer to the orientation as then described or as shown in the drawing under discussion. These relative terms are for convenience of description and do not require that the apparatus be constructed or operated in a particular orientation. Terms concerning attachments, coupling and the like, such as “connected” and “interconnected;,” refer to a relationship wherein structures are secured or attached to one another either directly or indirectly through intervening structures, as well as both movable or rigid attachments or relationships, unless expressly described otherwise.

Although the invention has been described in terms of exemplary embodiments, it is not limited thereto. Rather, the appended claims should be construed broadly, to include other variants and embodiments of the invention, which may be made by those skilled in the art without departing from the scope and range of equivalents of the invention.

What is claimed is:

1. A garment, comprising:
 - a garment upper portion having a belly panel that is expandable to cover and fit over a growing abdomen during different stages of pregnancy;
 - a garment lower portion having a first torso encircling circumference that recedes downward to make way for expansion of the belly panel; and
 - the garment upper portion having a second torso encircling circumference defining an upper edge of the belly panel that encircles a wearer’s torso just beneath the wearer’s breast area configured to hold the garment up and in place about the torso in a position of a location of maximum girth of the abdomen thereby substantially covering the wearer’s entire pregnant abdomen during all stages of pregnancy.
2. The garment of claim 1, wherein the second torso encircling circumference is adjustable in girth in conformance with different body types.
3. The garment of claim 1, wherein the garment upper portion comprises a seamless tubular structure that fits comfortably while being worn, and the belly panel comprises an expandable portion of the tubular structure.
4. The garment of claim 1, wherein the garment upper portion comprises a seamless tubular elastic fabric to stretch elastically.
5. The garment of claim 1, wherein the garment upper portion comprises an elastic fabric that is contractible elastically to cover an abdomen during different stages of postpartum body changes.
6. The garment of claim 1, wherein the garment lower portion has a partial waistband extending from side seams of the garment lower portion and extending across a back side of the garment lower portion where the partial waistband widens above a wearer’s pelvis.
7. The garment of claim 1, further comprising a series of belly cradling stitches or knitted tension in the belly panel, wherein the knitted tension or stitches extend along multiple paths arranged in an elliptical pattern that curves, so as to cradle a curved growing abdomen during various stages of pregnancy.
8. The garment of claim 1, further comprising a series of stitches or knitted tension in the backside of the garment upper portion to provide spinal and back support against the wearer of the garment.
9. The garment of claim 8, wherein the series of stitches or knitted tension in the backside of the garment upper portion extends along a pattern of multiple stitch paths.

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10. The garment of claim 1, wherein the garment upper portion is foldable toward the garment lower portion to comprise a folded band on the garment lower portion.

11. The garment of claim 1, wherein the garment lower portion has a partial waistband extending from side seams of the garment lower portion wherein the partial waistband tapers toward the side seams and widens above a wearer’s pelvis across a back side of the garment lower portion.

12. The garment of claim 1, comprising:

- knitted tension in the backside of the garment upper portion providing spinal column and back support for a wearer of the garment.

13. The garment of claim 1, comprising:

- a series of sewn supporting stitches in the backside of the garment upper portion providing spinal column and back support for a wearer of the garment.

14. The garment of claim 1, comprising:

- a series of sewn supporting stitches in the backside of the garment upper portion providing spinal column and back support for a wearer of the garment, wherein the stitches are arranged along multiple stitch paths grouped in a hyperbolic pattern, a curved pattern or a truncated, v-shaped pattern along an axis extending substantially vertically along a spinal supporting section of the fabric.

15. The garment of claim 1, wherein an edge margin of the garment upper portion is folded over and knitted to an inside of the fabric to provide a perimeter hem stitch.

16. The garment of claim 1, wherein an edge margin of the garment upper portion is folded over and sewn or knitted to an inside of the fabric to provide a perimeter hem stitch.

17. The garment of claim 1, wherein the second torso encircling circumference comprises stretchable fabric to adjust the girth in conformance with different body types.

18. The garment of claim 1, wherein the garment upper portion is a tubular structure, wherein the tubular structure is shaped and formed as a hyperboloid cylinder to fit a body type having a tapered torso.

19. The garment of claim 1, wherein the garment upper portion is a tubular structure, wherein the tubular structure is shaped and formed as a straight sided cylinder to fit a body type having a corresponding shaped torso.

20. The garment of claim 1, wherein the garment upper portion comprises a double layer tubular structure, and an inner layer of stretchable fabric between two layers of the double-layer tubular structure.

21. The garment of claim 1, wherein the garment upper portion comprises a fabric, and the fabric is doubled back on itself downward to form a double-layer tubular structure that extends downward for at least a portion of the garment upper portion, and the layers of the double-layer tubular structure are sewn together with a tubular perimeter drop stitch.

22. The garment of claim 1, wherein the garment upper portion comprises a fabric doubled back on itself downward to form a double-layer tubular structure that extends downward for at least a portion of the garment upper portion, the layer of the double-layer tubular structure are sewn together with a tubular perimeter drop stitch, and an edge margin of the garment upper portion is knitted to an inside of the fabric to provide a perimeter hem stitch.

23. The garment of claim 3, wherein the seamless tubular structure comprises a fabric doubled back on itself downward to form a double-layer tubular structure that extends downward for at least a portion of the garment upper portion, the layers of the double-layer tubular structure are sewn together with a tubular perimeter drop stitch, and an edge margin of the garment upper portion is folded over and sewn or knitted to an inside of the fabric to provide a perimeter hem stitch.

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24. The garment of claim 1, wherein the garment upper portion is foldable toward the garment lower portion to provide a folded band on the garment lower portion to be worn as a garment bottom having no top.

25. The garment of claim 1, wherein the garment lower portion comprises one of a pair of trousers and a skirt.

26. The garment of claim 1, wherein the garment lower portion comprises denim jeans.

27. The garment of claim 1, wherein the garment lower portion comprises a zipperless fly.

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28. The garment of claim 1, wherein the first torso-encircling circumference recedes downward with a parabolic shape, said parabolic shape including a shallow curvature.

29. The garment of claim 28, wherein the belly panel extends at least partially under the abdomen of the wearer to meet the parabolic receding circumference of the garment lower portion.

* * * * *

EXHIBIT C



US007900276B2

(12) **United States Patent**
Hendrickson et al.

(10) **Patent No.:** US 7,900,276 B2
 (45) **Date of Patent:** *Mar. 8, 2011

(54) **BELLY COVERING GARMENT**

(56) **References Cited**

(75) **Inventors:** Lisa A. Hendrickson, Mount Laurel, NJ (US); James H. Gardner, III, Ambler, PA (US); Richard Adelman, Greensboro, NC (US)

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(73) **Assignee:** Destination Maternity Corporation, Wilmington, DE (US)

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(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 87 days.

This patent is subject to a terminal disclaimer.

(21) **Appl. No.:** 12/117,004

* cited by examiner

(22) **Filed:** May 8, 2008

Primary Examiner — Gloria Hale

(65) **Prior Publication Data**

(74) *Attorney, Agent, or Firm* — DLA Piper LLP (US)

US 2008/0295217 A1 Dec. 4, 2008

Related U.S. Application Data

(57) **ABSTRACT**

(63) Continuation of application No. 11/756,242, filed on May 31, 2007, now Pat. No. 7,814,575.

The present invention relates to a garment worn during different stages of pregnancy and different stages of postpartum body changes. A garment upper portion has a belly panel that is expandable to cover and fit over a growing abdomen during different stages of pregnancy, and a garment lower portion having a first torso encircling circumference that recedes downward to make way for expansion of the belly panel. The garment upper portion has a second torso encircling circumference to hold the garment up and in place over the torso.

(51) **Int. Cl.**

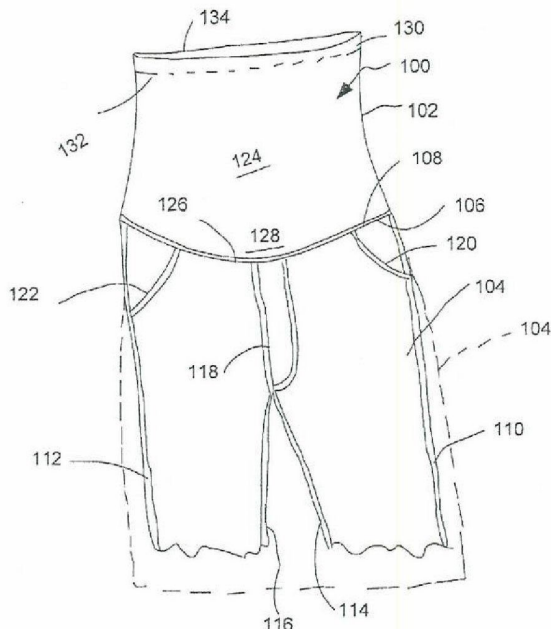
A41F 9/00 (2006.01)
 A41D 1/06 (2006.01)

(52) **U.S. Cl.** 2/237; 2/236; 2/227

(58) **Field of Classification Search** 2/69, 227, 2/228, 236-238, 243.1; 450/155, 96-100

See application file for complete search history.

16 Claims, 8 Drawing Sheets



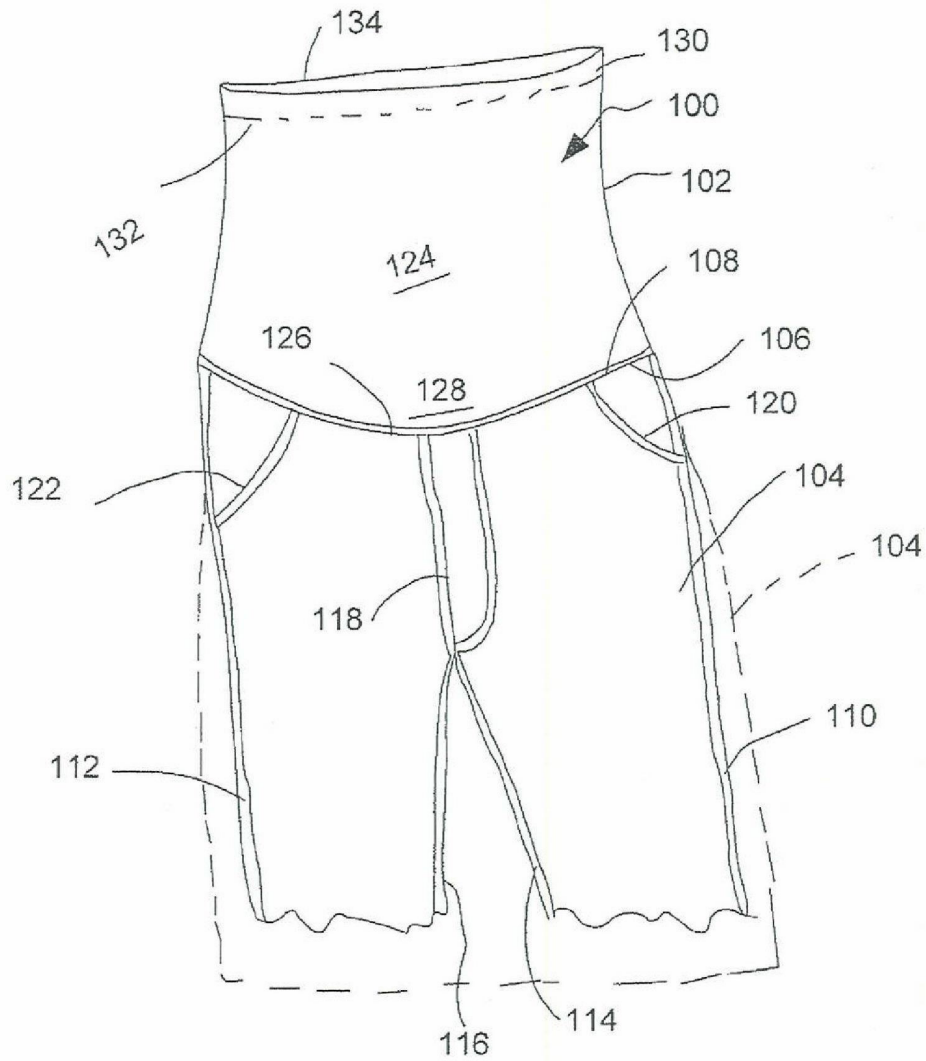


FIG. 1

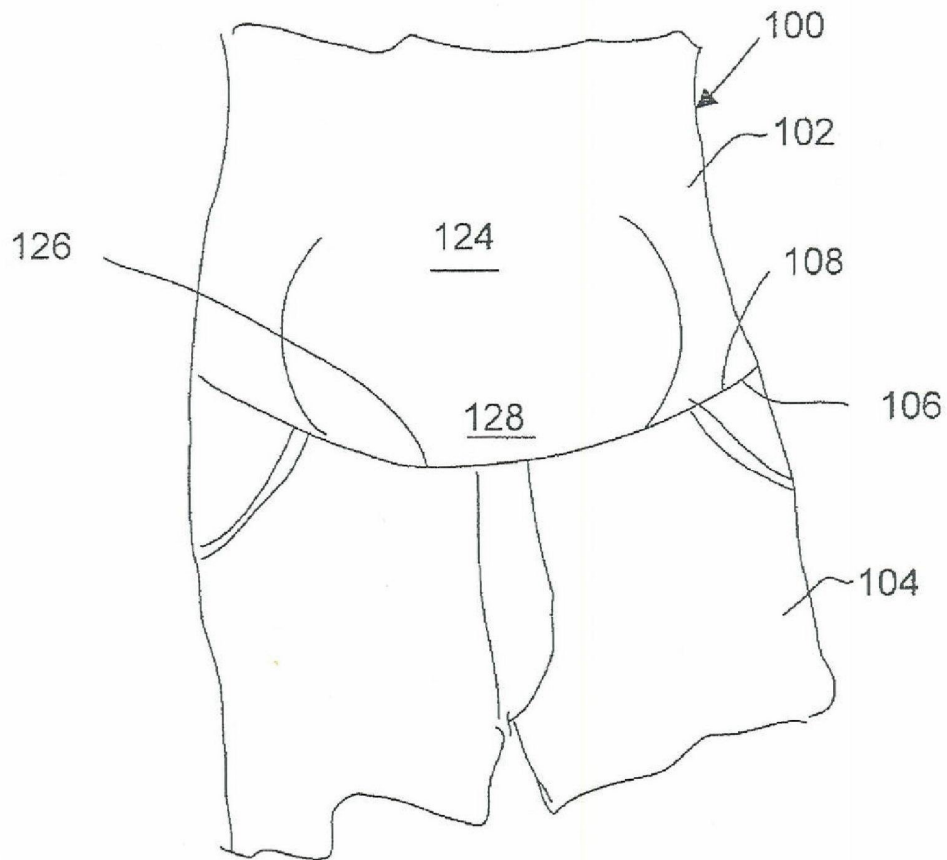


FIG. 1A

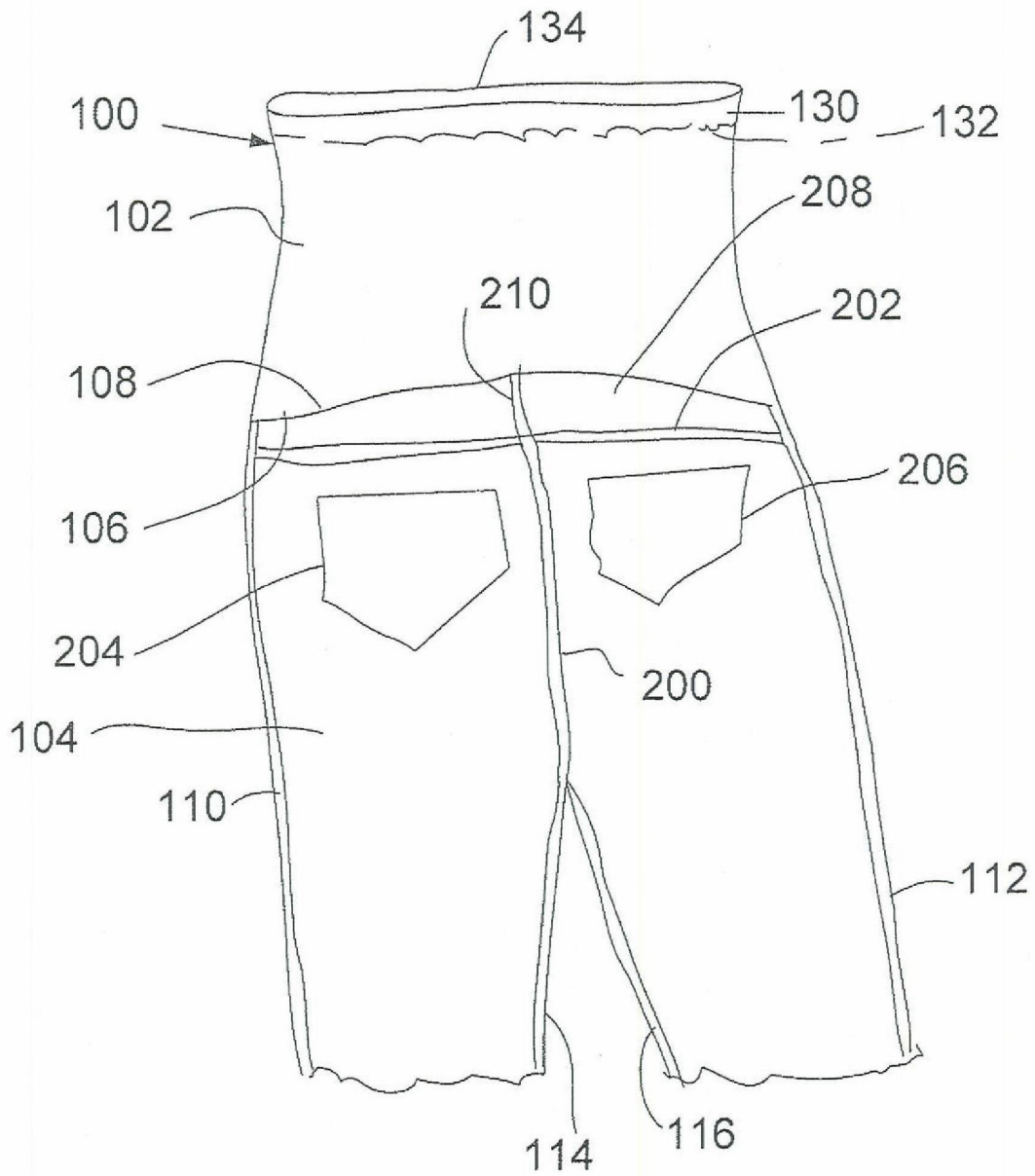


FIG. 2

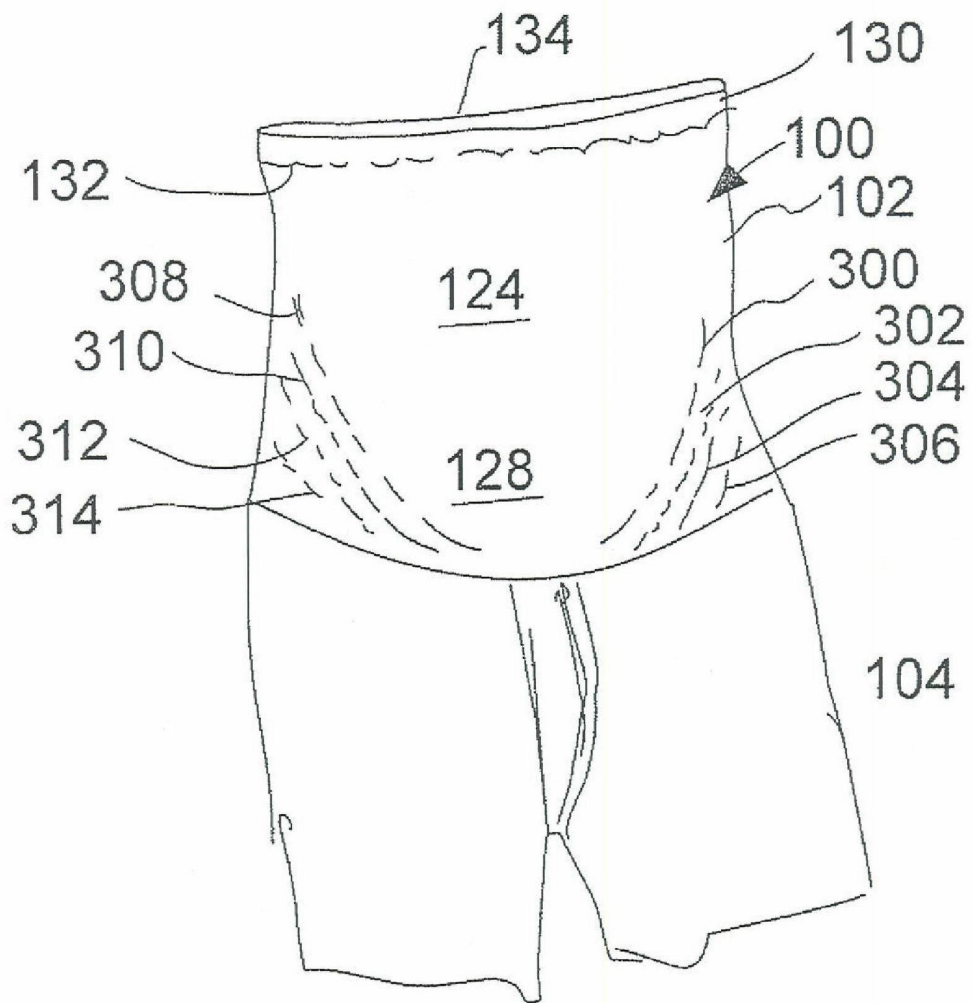


FIG. 3

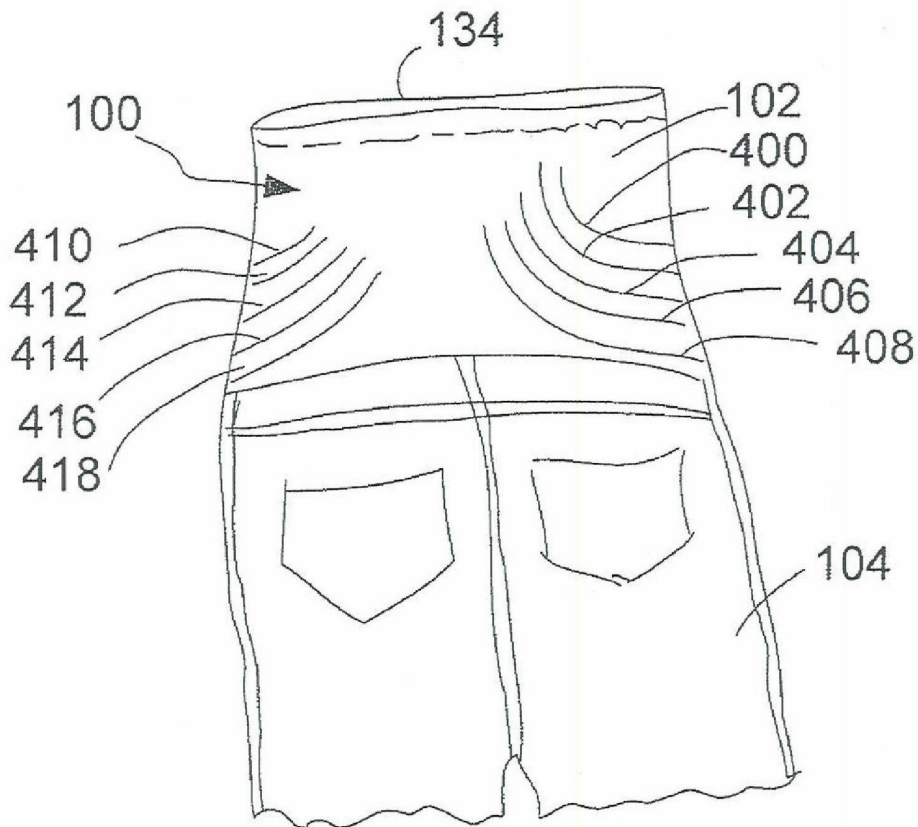


FIG. 4

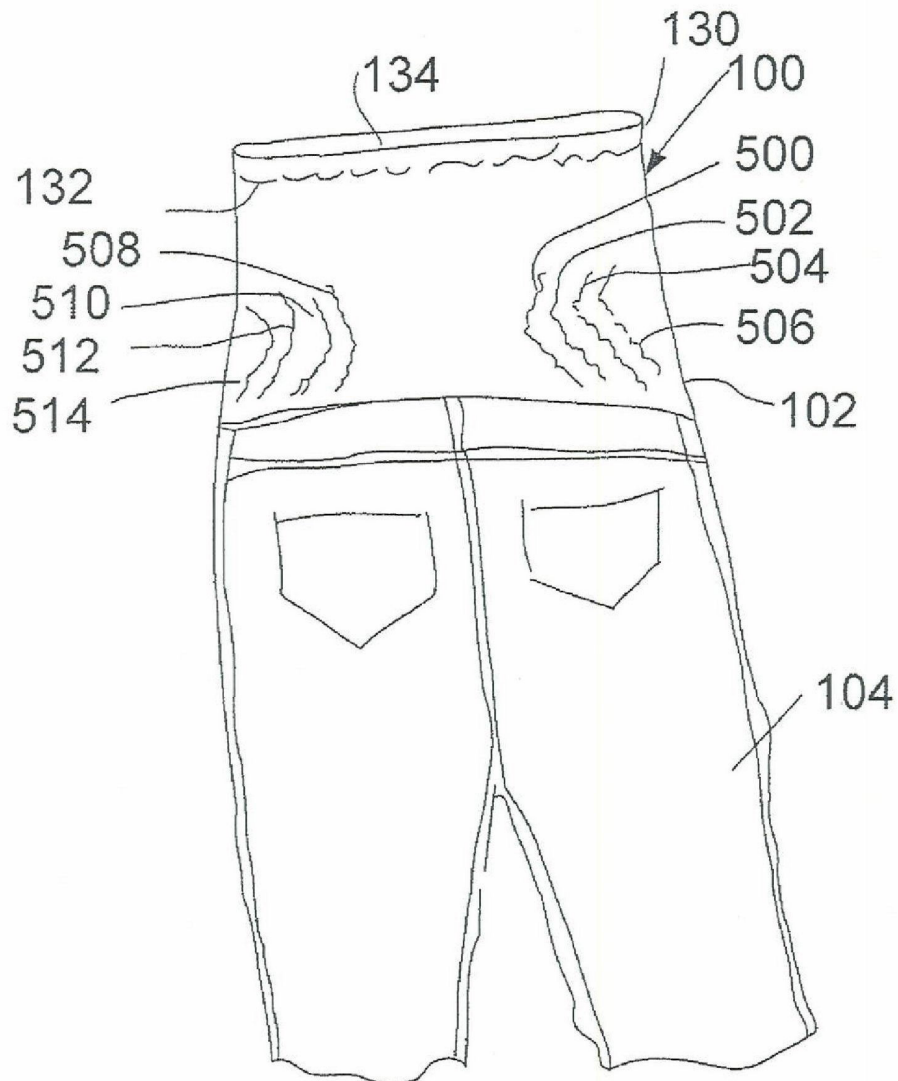


FIG. 5

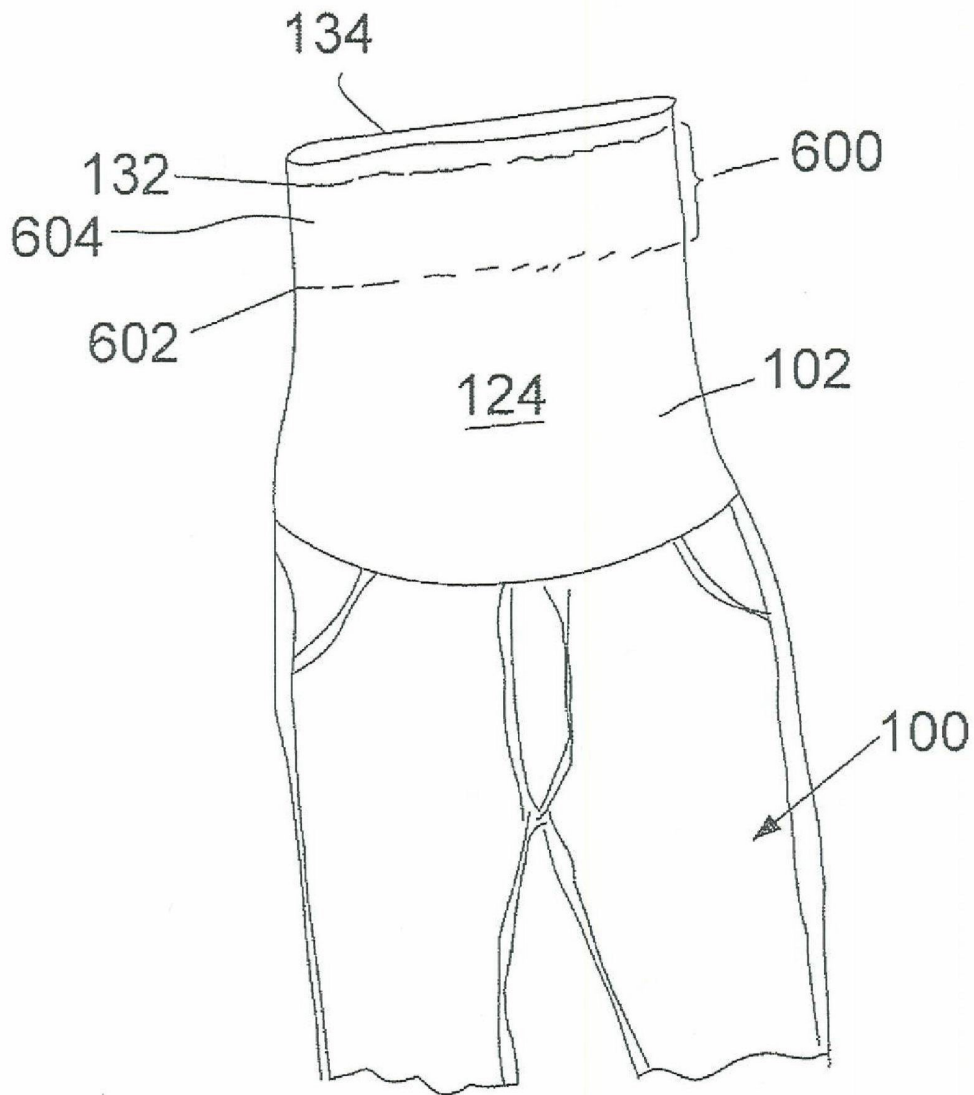


FIG. 6

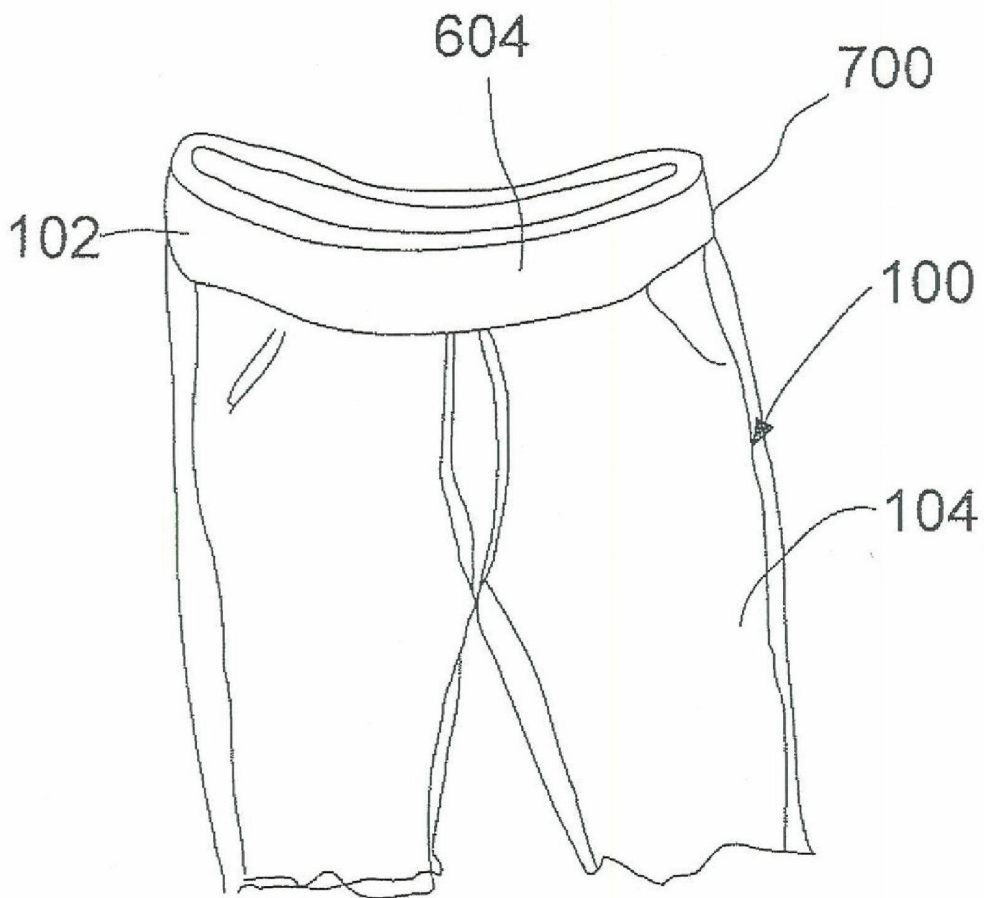


FIG. 7

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BELLY COVERING GARMENT**CROSS REFERENCE TO RELATED APPLICATION**

The present application is a continuation of U.S. patent application Ser. No. 11/756,242, filed May 31, 2007 now U.S. Pat. No. 7,814,575.

FIELD OF THE INVENTION

The present invention relates to a garment worn during different stages of pregnancy and different stages of postpartum body changes.

BACKGROUND OF THE INVENTION

Garments intended to cover a wearer's body below the abdomen or belly during various stages of pregnancy have been manufactured as knits or woven fabrics. Some of the knits or woven fabric garments are constructed with an elastic belt or waist band which caused discomfort when tightened about the body. Some of the garments have stretchable fabric panels sewn into place with sewn seams. Such garments cause discomfort due to the presence of the sewn seams, urged by elastic stretching of the panels pressing against the torso. Moreover, women have complained that such garments are difficult to keep in place, as they gradually slip downward while they are being worn.

Denim jeans or trousers have been recycled by removing the waistband at the front of the jeans and replacing the same with an elastic band that cradles a growing abdomen. Alternatively, denim jeans or trousers are manufactured without a waistband at the front so that a separate band can be attached at the front.

Accordingly, a need exists for a garment that covers and fits a growing abdomen during different stages of pregnancy. Such a garment is required to stay up, and desirably would fit comfortably while being worn. Moreover, such a garment would stay up when worn over different body types.

SUMMARY OF THE INVENTION

A purpose of the invention is to provide a garment that adapts to cover and fit a growing abdomen during pregnancy, wherein the garment stays up when worn.

A garment comprises a garment upper portion and a garment lower portion. The garment upper portion has a belly panel that is expansible to cover and fit over a growing abdomen during different stages of pregnancy. The garment lower portion has a first torso encircling circumference that recedes downward to make way for expansion of the belly panel. The garment upper portion has a second torso encircling circumference to hold the garment up and in place over the torso.

An embodiment of the garment is adjustable to encircle different body types. Another embodiment of the invention provides a garment that fits comfortably while being worn.

An embodiment of the garment comprises an adjustable torso encircling circumference that is adjustable in girth to encircle different body types.

An embodiment of the upper portion of the garment comprises a seamless tubular elastic fabric to stretch elastically and fit different body types.

An embodiment of the abdomen covering area comprises an elastic fabric.

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An embodiment of the abdomen covering area comprises an elastic fabric that is contractible elastically to cover an abdomen during different stages of postpartum body changes.

According to an embodiment of the invention, an expandible tubular upper portion of the garment is seamless to fit comfortably while being worn.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a front view of a garment according to the present invention.

FIG. 1A is a view similar to FIG. 1, and discloses a body panel covering a growing abdomen.

FIG. 2 is a view of a backside portion of the garment disclosed by FIG. 1.

FIG. 3 is view of a front portion of another embodiment of a garment.

FIG. 4 is view of a backside portion of another embodiment of a garment.

FIG. 5 is a view of a backside portion of yet another embodiment of a garment.

FIG. 6 is front view of a portion of another embodiment of a garment.

FIG. 7 is front view of a portion of yet another embodiment of a garment.

DETAILED DESCRIPTION OF THE INVENTION

FIG. 1 discloses a garment 100 for encircling a lower torso portion of a wearer of the garment 100. The garment 100 comprises a garment upper portion 102 and a garment lower portion 104. A lower end perimeter 106 of the garment upper portion 102 is attached to a corresponding upper end perimeter 108 of the garment lower portion 104. The garment lower portion 104 comprises, for example, a pair of trousers, such as, denim jeans. Alternatively, the garment lower portion 104 comprises a skirt depicted in FIG. 1 in phantom outline.

With reference to FIGS. 1 and 2, each leg of the pair of trousers is constructed with sewn seams. Outer side seams 110, 112 extend continuously from top to bottom of the trousers, or garment lower portion 104. Further, each leg is constructed with inner side seams 114, 116 joining a front center seam 118 of the trousers and a back side, curved center seam 200, FIG. 2, of the trousers. For example, the front center seam 106 defines a sewn "zipper less" fly front. The back side of the trousers, FIG. 2, is sewn with a back side perimeter seam 202 extending horizontally across the back side of the trousers from the outer side seams 110, 112 to the back side center seam 200. If pockets are desired, the legs of the trousers are constructed, for example, with a front pockets 120, 122 and back pockets 204, 206.

FIG. 2 discloses an embodiment of the trousers, or garment lower portion 104, having a partial waistband 208 joining and extending from the side seams 110, 112 of the trousers and extending across a back side of the trousers or garment lower portion 104. The waistband 208 is sewn onto the perimeter seam 202 on the back side. The waistband 208 tapers toward the side seams 110, 112 and widens across the back side, and has a center seam 210 to shape the waistband 208 with a curvature above a wearer's pelvis, and for torso coverage especially when sitting or bending.

In FIG. 1, the garment upper portion 102 has a belly panel 124 to provide an abdomen covering area. The belly panel 124 is expansible, for example, when made of a stretchable fabric, to cover and fit over a growing abdomen during different stages of pregnancy, FIG. 1A. The belly panel 124 has a bottom portion 128 that projects downward with a parabolic

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shape, especially when covering a growing abdomen, FIG. 1A. The perimeter 108 of the garment lower portion 104 provides a first torso encircling circumference 126 that recedes downward with a parabolic shape adjacent to and below the bottom portion 128 of the belly panel 124 to make way for expansion of the belly panel 124 when covering a growing abdomen during various stages of pregnancy. The parabolic shape includes a shallow curvature, or, alternatively includes a more pronounced curvature. The belly panel 124 extends at least partially under the abdomen of the garment wearer to meet and join the bottom portion 128 of the belly panel 124 with the parabolic receding circumference 126 of the garment lower portion 104.

According to an embodiment of the invention, at least the belly panel 124 comprises a stretchable fabric that is woven or knitted with elastic, stretchable strands. The stretchable fabric is expansible by stretching elastically to cover and fit over the growing abdomen, FIG. 1A. Further, the stretchable fabric is contractible elastically to cover a shrinking abdomen during different stages of postpartum body changes. The belly panel 124 also has foreseeable alternative functions, for example, to cover an abdomen during different stages of torso weight gains and losses, or to fit over respective torsos of different body types.

In FIGS. 1 and 2, the garment upper portion has a top tubular perimeter hem 130 made by folding over a top edge margin of the stretchable fabric, and either tubular knitting or sewing the folded fabric to the inside surface of the fabric, and to create a top perimeter knitted hem stitch 132 as disclosed in FIG. 1. The perimeter of the garment upper portion 102 has a torso encircling circumference 134 to hold the garment 100 up and in place over the torso. Advantageously, the entire garment 100 is held up and in place. An embodiment of the garment upper portion 102 comprises stretchable fabric to adjust the girth of the second torso encircling circumference 134 in conformance with different body types. According to an embodiment of the invention, the torso encircling circumference 134 extends along the upper end of the belly panel 124. In FIG. 1A, the belly panel 124 extends at least somewhat above the maximum girth of the abdomen, even during a later stage of pregnancy, such that the belly panel 124 positions the torso encircling circumference 134 at least somewhat above the location of maximum girth to resist slipping down over the abdomen.

An embodiment of the garment upper portion 102 comprises a tubular structure to encircle a torso of a wearer of the garment 100. The tubular structure comprises a stretchable fabric woven or knitted with elastic, stretchable strands. The belly panel 124 comprises a portion of the stretchable fabric. The tubular structure is adaptable to cover and fit different body types by being elastically expansible and contractible. Different body types have different muscle mass distributions and spinal columns of different curvatures, which make the tubular structure conform to the different body types by expanding and contracting in different locations and amounts when worn by the different body types. The tubular structure is elastically expansible to widen the tubular girth at selected locations and amounts where needed to fit a body type, and is elastically contractible to narrow the tubular girth at selected locations and amounts where needed to fit the body type.

In FIGS. 1 and 2, the tubular structure is shaped and formed as a one-sheet hyperboloid cylinder to fit a body type having a tapered torso that tapers approximately from shoulder to waist. The perimeter profile of the one-sheet hyperboloid cylinder has hyperbolic shaped sides. Alternatively, the tubular structure is shaped and formed as a straight-sided cylinder,

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for example, as disclosed in FIG. 6. The perimeter profile of the straight sided cylinder has substantially straight sides.

Preferably, the stretchable fabric is woven or knitted to form a continuous, seamless tubular structure, such that the garment 100 is comfortable to wear due to the absence of seams that would tend to press against the torso.

FIG. 3 discloses an alternative embodiment in which the garment upper portion 102 is provided with belly cradling support in the form of a series of sewn stitches or knitted tension at 300, 302, 304, 306, 308, 310, 312, and 314 in the belly panel 124. The knitted tension or stitches extend along multiple stitch paths grouped in an elliptical pattern that curves so as to cradle a curved growing abdomen, FIG. 1A, during various stages of pregnancy.

FIG. 4 discloses an alternative embodiment in which the backside of the garment upper portion 102 is provided with spinal column and back support for a wearer of the garment, in the form of a series of sewn supporting stitches or knitted tension at 400, 402, 404, 406, 408, 410, 412, 414, 416, 418 in the fabric, wherein the supporting knitted tension or stitches stiffen the fabric at the backside of the garment upper portion 102 to provide spinal and back support of the wearer of the garment 100. For example, the series of supporting stitches are arranged along multiple stitch paths grouped in a hyperbolic pattern or other curved pattern along an axis extending substantially vertically along a spinal supporting section of the fabric. FIG. 5 discloses an alternative pattern of supporting stitches 500, 502, 504, 506, 508, 510, 512, 514 in the fabric, wherein the supporting stitches are arranged along multiple stitch paths. For example, the stitch paths are shown as being grouped in a truncated, v-shaped pattern.

FIG. 6 discloses the garment upper portion 102 comprising a fabric woven or knitted to form a tubular structure, wherein the fabric of the tubular structure is doubled back on itself downward from the top circumference 134 thereof to form a double-layer tubular structure 600 that extends downward at least for a portion of the garment upper portion 102. The layers of the double-layer tubular structure 600 are sewn together with a tubular perimeter drop stitch 602. The layers are further sewn with a top, tubular perimeter hem stitch 132 as described in FIG. 1. In an alternative embodiment disclosed by FIG. 6, the fabric is doubled back over an inner tubular layer of stretchable fabric 604, shown in phantom outline by and between the stitches 132, 602, that is flatly layered and sewn in between the two tubular layers of the double layer fabric. The three tubular layers are sewn together with the top, tubular perimeter drop stitch 602 and the top, tubular perimeter hem stitch 132 as described in FIG. 1. The inner layer 604 of stretchable fabric provides the belly panel 124 with the capability for resilient expansion. In another embodiment, the double layer fabric comprises a stretch fabric woven or knitted with elastically stretchable and contractible yarns, providing the belly panel with the capability for resilient expansion.

FIG. 7 discloses that the garment 100 of FIG. 6 is convertible to comprise a bottom garment without a top, the garment upper portion 102 is foldable toward the garment lower portion 104 to provide a folded band 700 on the garment lower portion 104, which is to be worn solely as a garment bottom 104 having the folded band 700, and having no top. Each of the other embodiments of the garment 100 is similarly convertible by adding the stretchable fabric 604 to the upper garment portion 102 of the other embodiment of the garment 100, and folding the garment upper portion 102 toward the garment lower portion 104 to provide a folded band 700 on the garment lower portion 104 of the other embodiment of the garment 100.

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This description of the exemplary embodiments is intended to be read in connection with the accompanying drawings, which are to be considered part of the entire written description. In the description, relative terms such as "lower," "upper," "horizontal," "vertical," "above," "below," "up," "down," "top" and "bottom" as well as derivatives thereof (e.g., "horizontally," "downwardly," "upwardly," etc.) should be construed to refer to the orientation as then described or as shown in the drawing under discussion. These relative terms are for convenience of description and do not require that the apparatus be constructed or operated in a particular orientation. Terms concerning attachments, coupling and the like, such as "connected" and "interconnected," refer to a relationship wherein structures are secured or attached to one another either directly or indirectly through intervening structures, as well as both movable or rigid attachments or relationships, unless expressly described otherwise.

Although the invention has been described in terms of exemplary embodiments, it is not limited thereto. Rather, the appended claims should be construed broadly, to include other variants and embodiments of the invention, which may be made by those skilled in the art without departing from the scope and range of equivalents of the invention.

What is claimed is:

1. A garment portion having an attached belly panel portion comprising:
 an expansible belly panel adapted to substantially cover a wearer's entire belly region, said belly region comprising an area beginning just beneath the wearer's breast area and extending over the wearer's abdomen to a lower abdomen region beneath the wearer's belly, said belly panel comprising:
 an upper edge portion defining a first encircling circumference about a wearer's torso that is at or above the wearer's upper abdomen region, and
 a lower edge portion spaced from the upper edge portion and defining a second encircling circumference about the wearer's lower abdomen region;
 and
 a garment lower portion, in communication with the lower edge portion, having a torso encircling circumference that recedes downward to make way for expansion of the belly panel.

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2. The garment portion of claim 1, further comprising a pair of trousers attached to said lower edge portion.

3. The garment portion of claim 2, wherein said trousers comprise denim jeans.

4. The garment portion of claim 3, wherein said denim jeans comprise one or more pockets and a sewn zipperless fly front.

5. The garment portion of claim 1, further comprising a skirt attached to said lower edge portion.

6. The garment portion of claim 1, wherein said belly panel is adapted to cover the wearer's belly region during different stages of weight gains and losses.

7. The garment portion of claim 1, wherein said belly panel is adapted to substantially cover and fit over different body types.

8. The garment portion of claim 1, wherein the belly panel is elastically expansible and contractible.

9. The garment portion of claim 1, wherein the belly panel is seamless to fit comfortably while being worn.

10. The garment portion of claim 1, wherein the belly panel is foldable to comprise a folded band.

11. The garment portion of claim 1, wherein the belly panel is woven or knitted with elastic, stretchable strands.

12. The garment portion of claim 1, wherein a top edge margin of the belly panel is folded over and sewn or knitted to an inside of the belly panel fabric.

13. The garment portion of claim 1, wherein the belly panel comprises a double layer tubular structure.

14. The garment portion of claim 1, wherein the belly panel further comprises a partial waistband extending across a back side of the lower edge portion and extending down into side seams of an article of clothing connected thereto.

15. The garment portion of claim 1, wherein the belly panel further comprises one or more belly-cradling stitches or knitted tension to cradle the wearer's abdomen region.

16. The garment portion of claim 1, wherein the lower edge portion is configured to extend downward with a parabolic shape to accommodate the wearer's expanding belly region.

* * * * *

EXHIBIT D



US00RE43563E

(19) **United States**
 (12) **Reissued Patent**
Hendrickson et al.

(10) **Patent Number:** **US RE43,563 E**
 (45) **Date of Reissued Patent:** ***Aug. 7, 2012**

(54) **BELLY COVERING GARMENT**
 (75) Inventors: **Lisa A. Hendrickson**, Mount Laurel, NJ (US); **James H. Gardner, III**, Ambler, PA (US); **Richard Adelman**, Greensboro, NC (US)

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(73) Assignee: **Destination Maternity Corporation**, Philadelphia, PA (US)

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(*) Notice: This patent is subject to a terminal disclaimer.

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(21) Appl. No.: **13/161,169**

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Reissue of:

(64) Patent No.: **7,900,276**
 Issued: **Mar. 8, 2011**
 Appl. No.: **12/117,004**
 Filed: **May 8, 2008**

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(Continued)

U.S. Applications:

(63) Continuation of application No. 11/756,242, filed on May 31, 2007, now Pat. No. 7,814,575.

Primary Examiner — Gloria Hale

(74) Attorney, Agent, or Firm — DLA Piper LLP (US)

(51) Int. Cl. **A41D 1/06** (2006.01)
A41D 13/00 (2006.01)

(57) **ABSTRACT**

(52) U.S. Cl. **2/237; 2/236; 2/227**

(58) Field of Classification Search **2/227, 228, 2/236-238, 69, 243.1; 450/96-100, 155**
 See application file for complete search history.

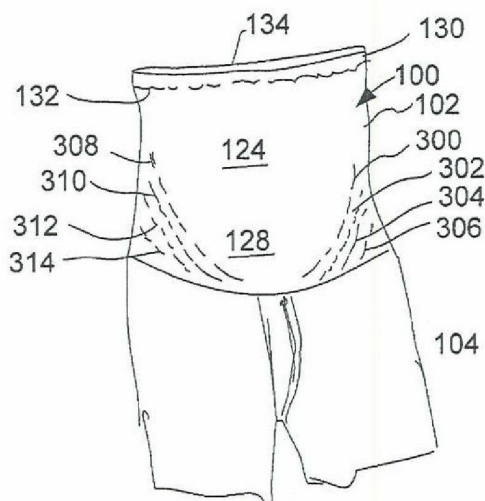
The present invention relates to a garment worn during different stages of pregnancy and different stages of postpartum body changes. A garment upper portion has a belly panel that is expansible to cover and fit over a growing abdomen during different stages of pregnancy, and a garment lower portion having a first torso encircling circumference that recedes downward to make way for expansion of the belly panel. The garment upper portion has a second torso encircling circumference to hold the garment up and in place over the torso.

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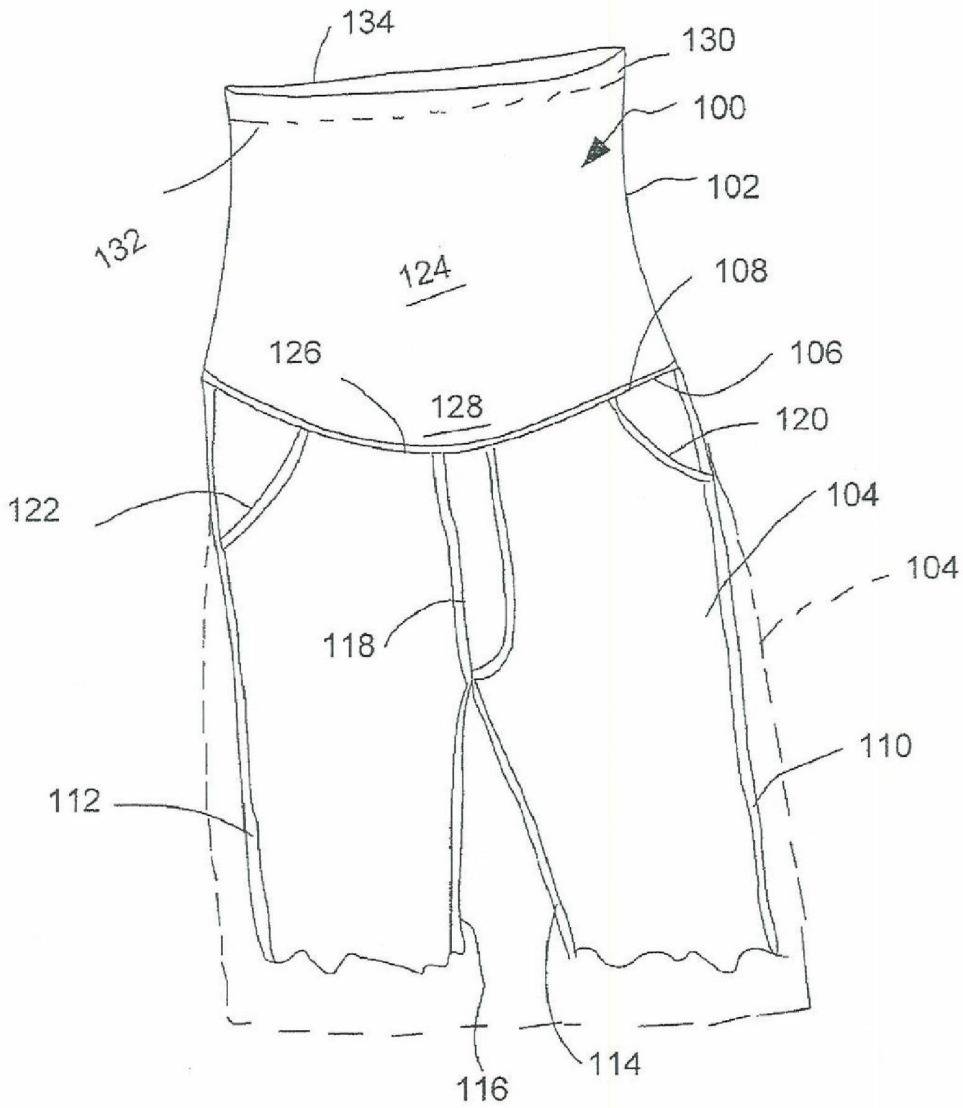


FIG. 1

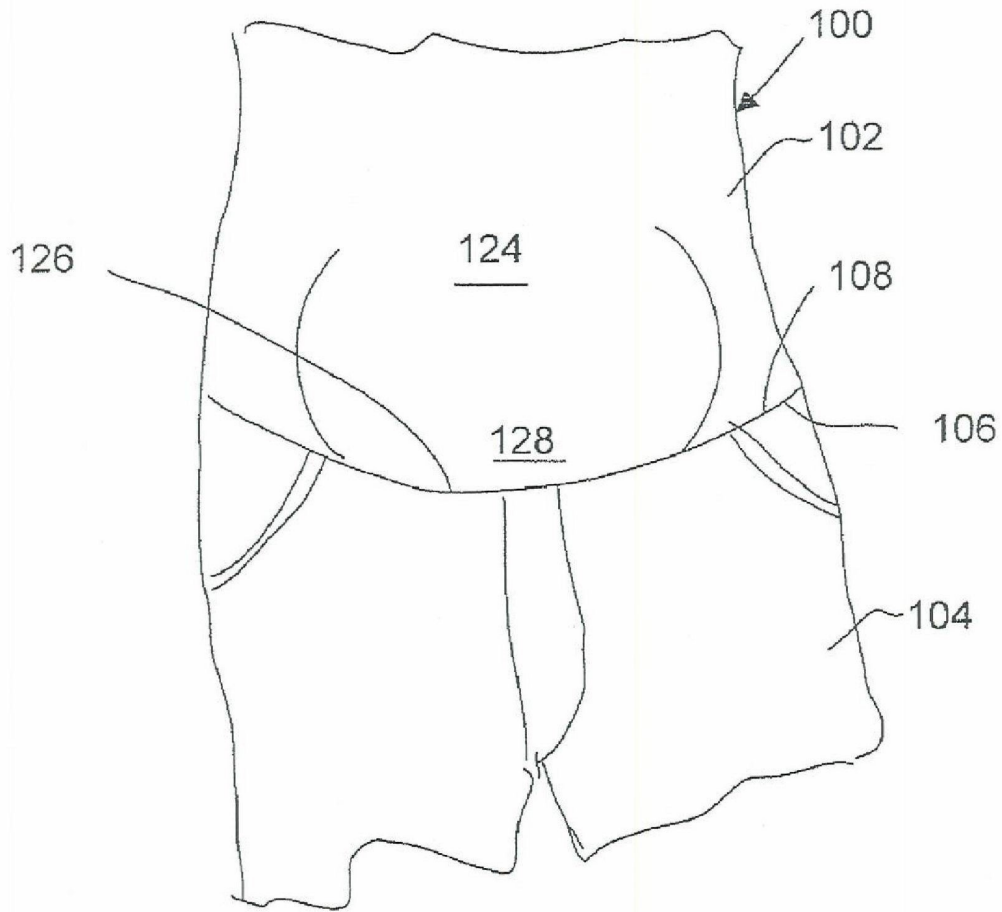


FIG. 1A

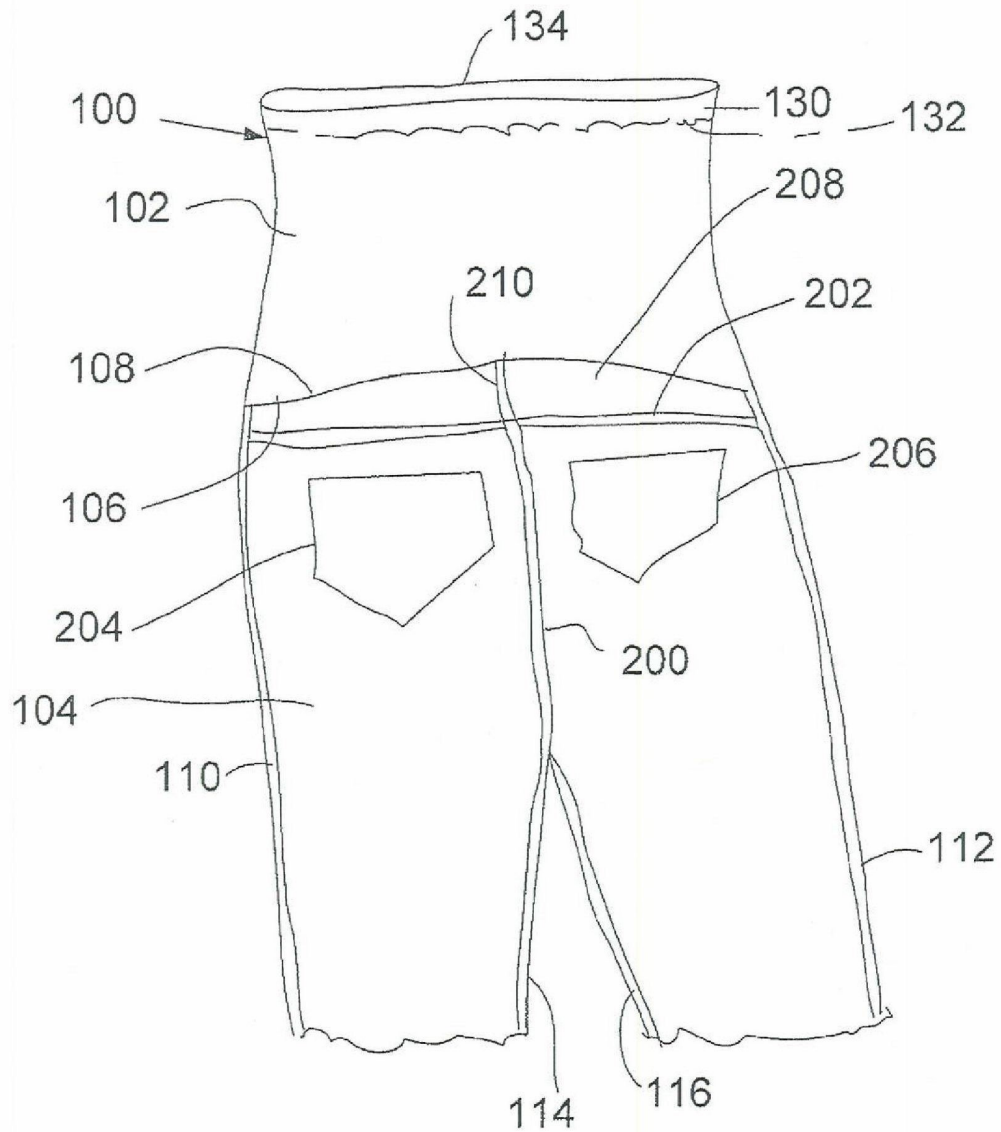


FIG. 2

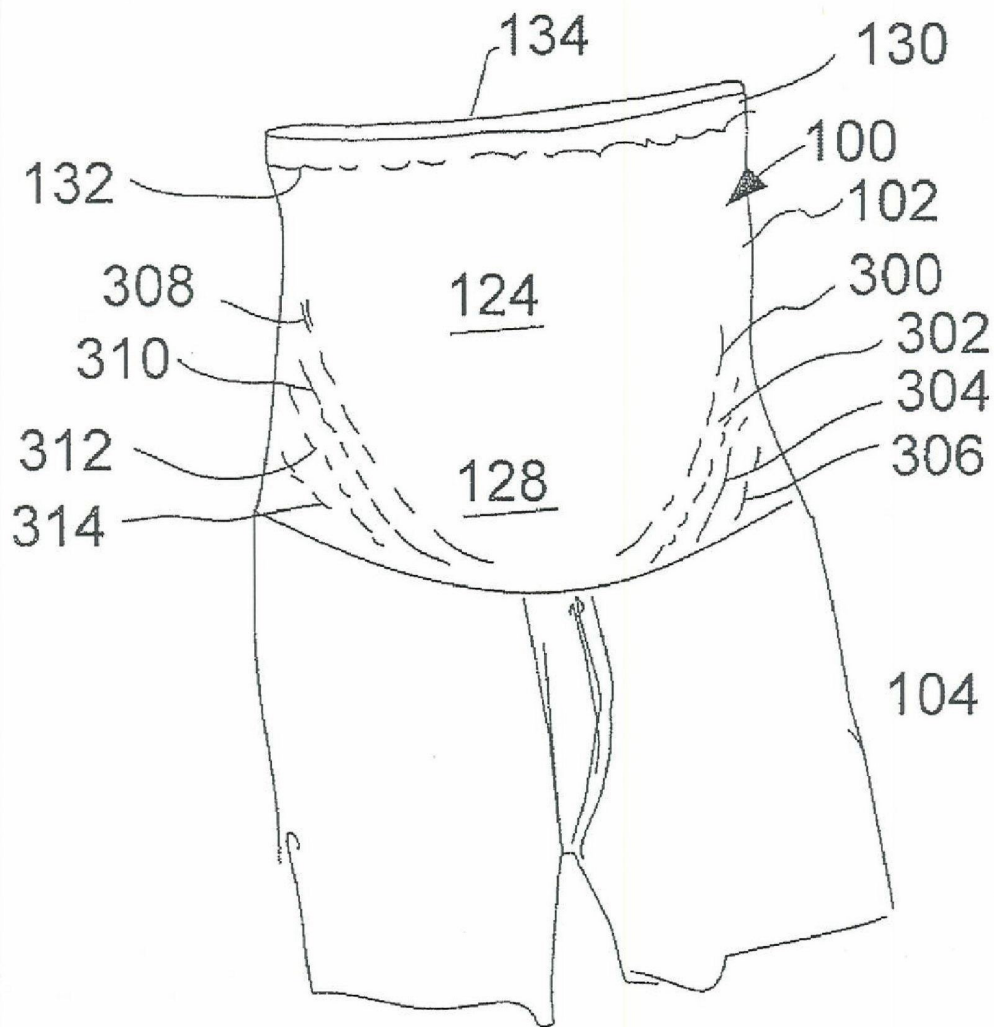


FIG. 3

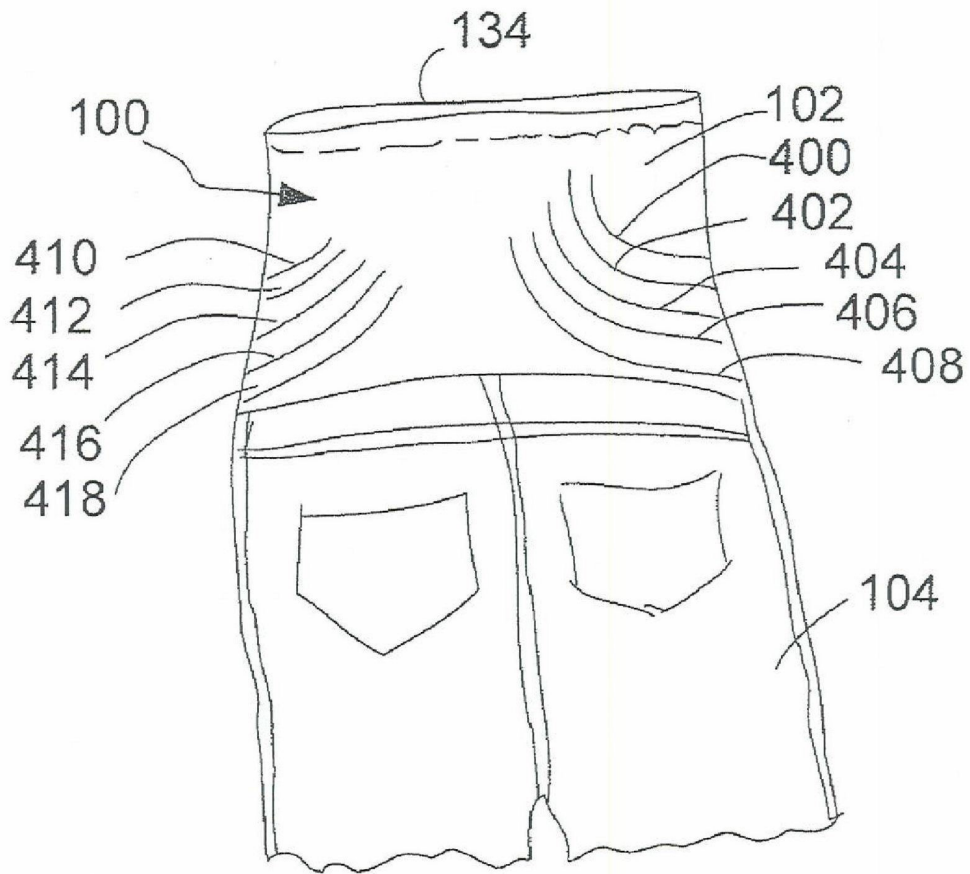


FIG. 4

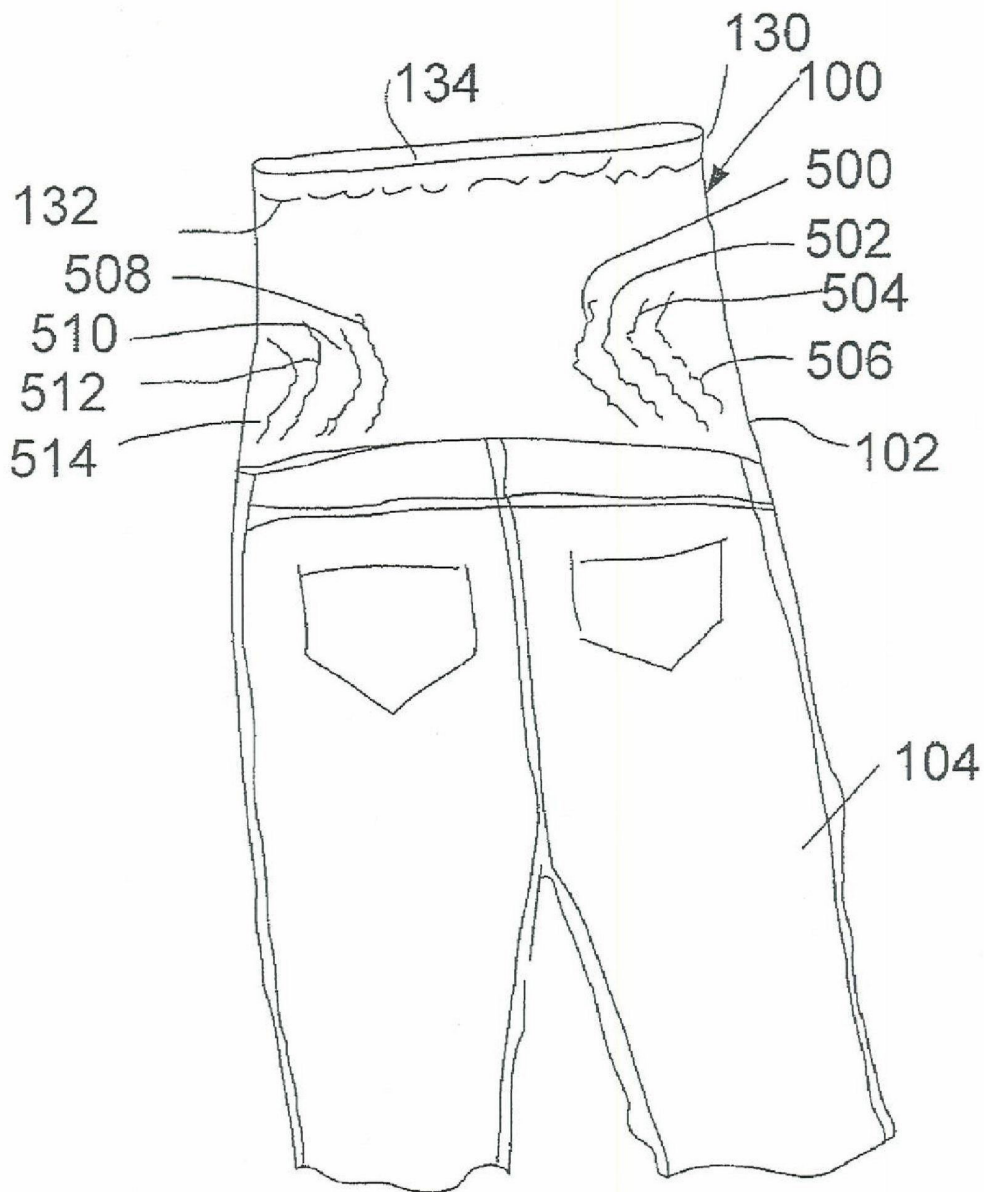


FIG. 5

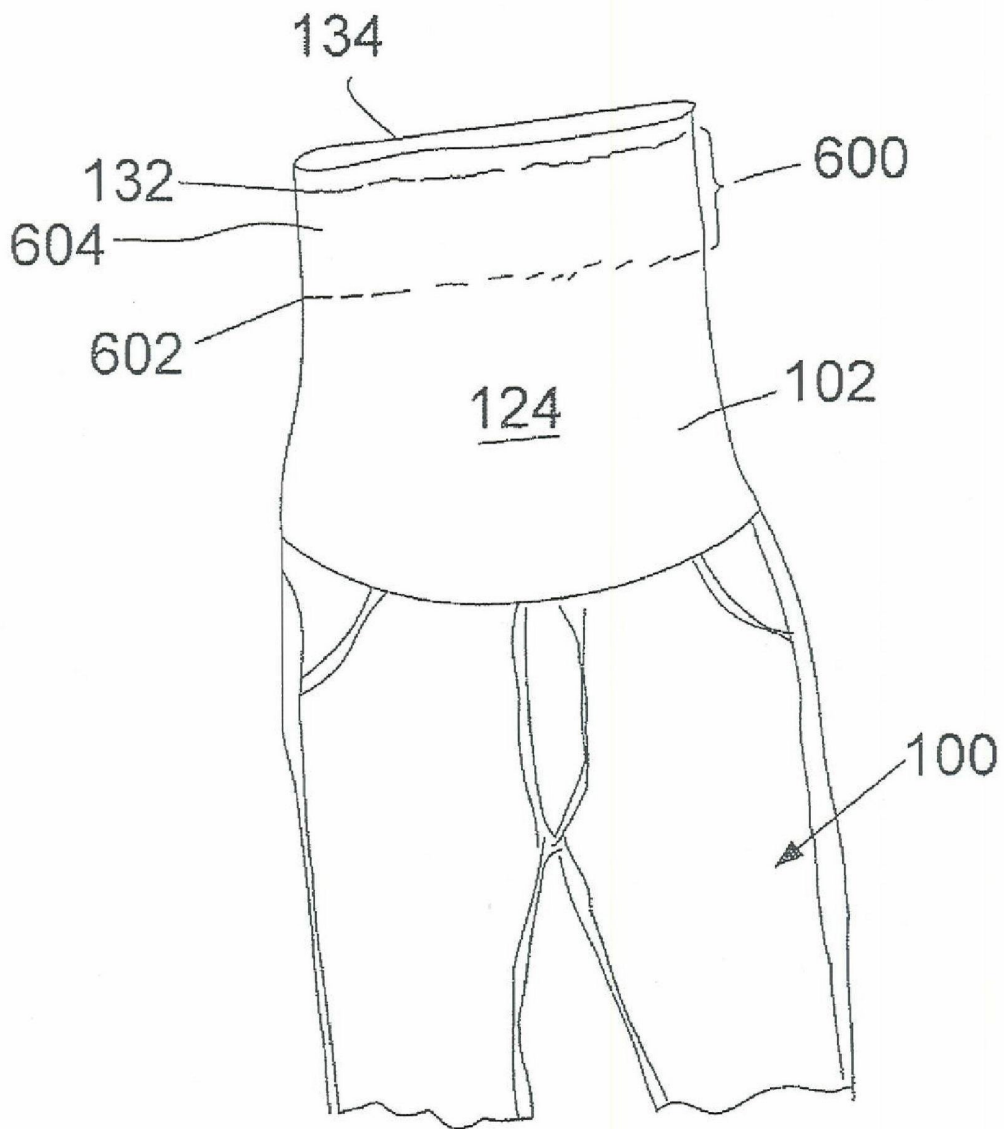


FIG. 6

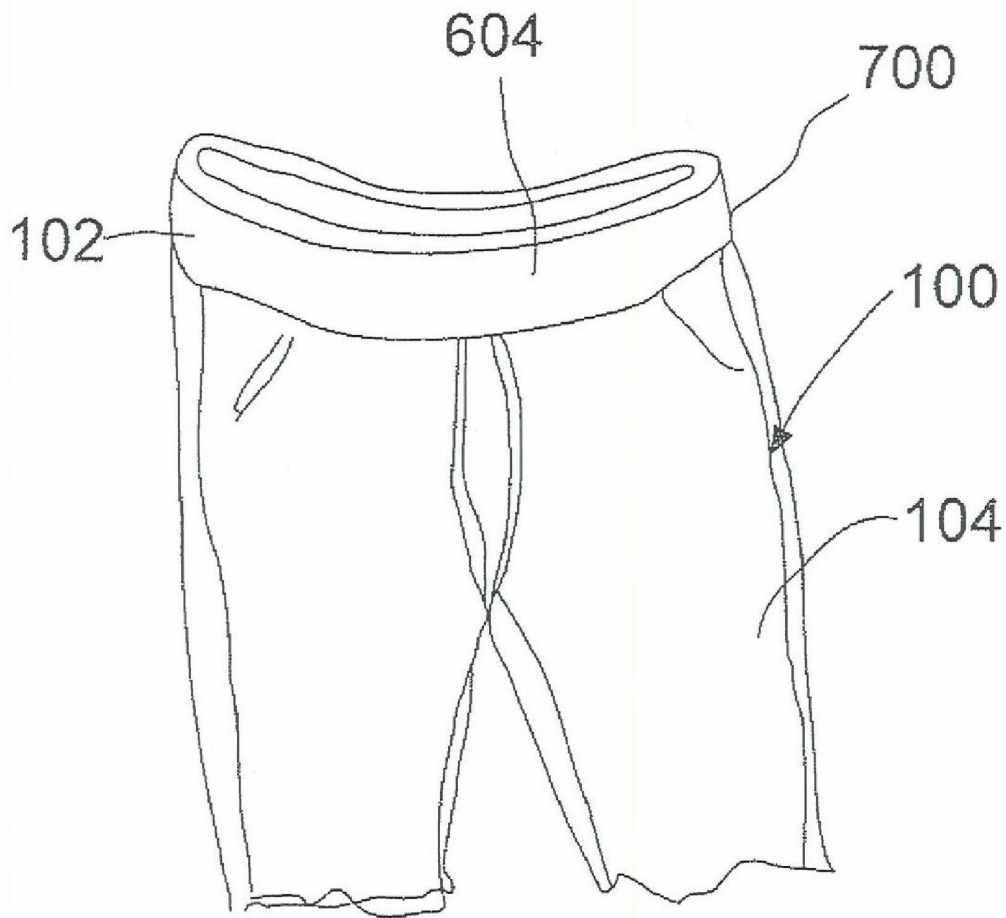


FIG. 7

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BELLY COVERING GARMENT

Matter enclosed in heavy brackets [] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

CROSS REFERENCE TO RELATED APPLICATION

The present application is a continuation of U.S. patent application Ser. No. 11/756,242, filed May 31, 2007 now U.S. Pat. No. 7,814,575.

FIELD OF THE INVENTION

The present invention relates to a garment worn during different stages of pregnancy and different stages of postpartum body changes.

BACKGROUND OF THE INVENTION

Garments intended to cover a wearer's body below the abdomen or belly during various stages of pregnancy have been manufactured as knits or woven fabrics. Some of the knits or woven fabric garments are constructed with an elastic belt or waist band which caused discomfort when tightened about the body. Some of the garments have stretchable fabric panels sewn into place with sewn seams. Such garments cause discomfort due to the presence of the sewn seams, urged by elastic stretching of the panels pressing against the torso. Moreover, women have complained that such garments are difficult to keep in place, as they gradually slip downward while they are being worn.

Denim jeans or trousers have been recycled by removing the waistband at the front of the jeans and replacing the same with an elastic band that cradles a growing abdomen. Alternatively, denim jeans or trousers are manufactured without a waistband at the front so that a separate band can be attached at the front.

Accordingly, a need exists for a garment that covers and fits a growing abdomen during different stages of pregnancy. Such a garment is required to stay up, and desirably would fit comfortably while being worn. Moreover, such a garment would stay up when worn over different body types.

SUMMARY OF THE INVENTION

A purpose of the invention is to provide a garment that adapts to cover and fit a growing abdomen during pregnancy, wherein the garment stays up when worn.

A garment comprises a garment upper portion and a garment lower portion. The garment upper portion has a belly panel that is expansible to cover and fit over a growing abdomen during different stages of pregnancy. The garment lower portion has a first torso encircling circumference that recedes downward to make way for expansion of the belly panel. The garment upper portion has a second torso encircling circumference to hold the garment up and in place over the torso.

An embodiment of the garment is adjustable to encircle different body types. Another embodiment of the invention provides a garment that fits comfortably while being worn.

An embodiment of the garment comprises an adjustable torso encircling circumference that is adjustable in girth to encircle different body types.

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An embodiment of the upper portion of the garment comprises a seamless tubular elastic fabric to stretch elastically and fit different body types.

An embodiment of the abdomen covering area comprises an elastic fabric.

An embodiment of the abdomen covering area comprises an elastic fabric that is contractible elastically to cover an abdomen during different stages of postpartum body changes.

According to an embodiment of the invention, an expandible tubular upper portion of the garment is seamless to fit comfortably while being worn.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a front view of a garment according to the present invention.

FIG. 1A is a view similar to FIG. 1, and discloses a body panel covering a growing abdomen.

FIG. 2 is a view of a backside portion of the garment disclosed by FIG. 1.

FIG. 3 is view of a front portion of another embodiment of a garment.

FIG. 4 is view of a backside portion of another embodiment of a garment.

FIG. 5 is a view of a backside portion of yet another embodiment of a garment.

FIG. 6 is front view of a portion of another embodiment of a garment.

FIG. 7 is front view of a portion of yet another embodiment of a garment.

DETAILED DESCRIPTION OF THE INVENTION

FIG. 1 discloses a garment 100 for encircling a lower torso portion of a wearer of the garment 100. The garment 100 comprises a garment upper portion 102 and a garment lower portion 104. A lower end perimeter 106 of the garment upper portion 102 is attached to a corresponding upper end perimeter 108 of the garment lower portion 104. The garment lower portion 104 comprises, for example, a pair of trousers, such as, denim jeans. Alternatively, the garment lower portion 104 comprises a skirt depicted in FIG. 1 in phantom outline.

With reference to FIGS. 1 and 2, each leg of the pair of trousers is constructed with sewn seams. Outer side seams 110, 112 extend continuously from top to bottom of the trousers, or garment lower portion 104. Further, each leg is constructed with inner side seams 114, 116 joining a front center seam 118 of the trousers and a back side, curved center seam 200, FIG. 2, of the trousers. For example, the front center seam 106 defines a sewn "zipper less" fly front. The back side of the trousers, FIG. 2, is sewn with a back side perimeter seam 202 extending horizontally across the back side of the trousers from the outer side seams 110, 112 to the back side center seam 200. If pockets are desired, the legs of the trousers are constructed, for example, with a front pockets 120, 122 and back pockets 204, 206.

FIG. 2 discloses an embodiment of the trousers, or garment lower portion 104, having a partial waistband 208 joining and extending from the side seams 110, 112 of the trousers and extending across a back side of the trousers or garment lower portion 104. The waistband 208 is sewn onto the perimeter seam 202 on the back side. The waistband 208 tapers toward the side seams 110, 112 and widens across the back side, and has a center seam 210 to shape the waistband 208 with a curvature above a wearer's pelvis, and for torso coverage especially when sitting or bending.

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In FIG. 1, the garment upper portion 102 has a belly panel 124 to provide an abdomen covering area. The belly panel 124 is expandible, for example, when made of a stretchable fabric, to cover and fit over a growing abdomen during different stages of pregnancy, FIG. 1A. The belly panel 124 has a bottom portion 128 that projects downward with a parabolic shape, especially when covering a growing abdomen, FIG. 1A. The perimeter 108 of the garment lower portion 104 provides a first torso encircling circumference 126 that recedes downward with a parabolic shape adjacent to and below the bottom portion 128 of the belly panel 124 to make way for expansion of the belly panel 124 when covering a growing abdomen during various stages of pregnancy. The parabolic shape includes a shallow curvature, or, alternatively includes a more pronounced curvature. The belly panel 124 extends at least partially under the abdomen of the garment wearer to meet and join the bottom portion 128 of the belly panel 124 with the parabolic receding circumference 126 of the garment lower portion 104.

According to an embodiment of the invention, at least the belly panel 124 comprises a stretchable fabric that is woven or knitted with elastic, stretchable strands. The stretchable fabric is expandible by stretching elastically to cover and fit over the growing abdomen, FIG. 1A. Further, the stretchable fabric is contractible elastically to cover a shrinking abdomen during different stages of postpartum body changes. The belly panel 124 also has foreseeable alternative functions, for example, to cover an abdomen during different stages of torso weight gains and losses, or to fit over respective torsos of different body types.

In FIGS. 1 and 2, the garment upper portion has a top tubular perimeter hem 130 made by folding over a top edge margin of the stretchable fabric, and either tubular knitting or sewing the folded fabric to the inside surface of the fabric, and to create a top perimeter knitted hem stitch 132 as disclosed in FIG. 1. The perimeter of the garment upper portion 102 has a torso encircling circumference 134 to hold the garment 100 up and in place over the torso. Advantageously, the entire garment 100 is held up and in place. An embodiment of the garment upper portion 102 comprises stretchable fabric to adjust the girth of the second torso encircling circumference 134 in conformance with different body types. According to an embodiment of the invention, the torso encircling circumference 134 extends along the upper end of the belly panel 124. In FIG. 1A, the belly panel 124 extends at least somewhat above the maximum girth of the abdomen, even during a later stage of pregnancy, such that the belly panel 124 positions the torso encircling circumference 134 at least somewhat above the location of maximum girth to resist slipping down over the abdomen.

An embodiment of the garment upper portion 102 comprises a tubular structure to encircle a torso of a wearer of the garment 100. The tubular structure comprises a stretchable fabric woven or knitted with elastic, stretchable strands. The belly panel 124 comprises a portion of the stretchable fabric. The tubular structure is adaptable to cover and fit different body types by being elastically expandible and contractible. Different body types have different muscle mass distributions and spinal columns of different curvatures, which make the tubular structure conform to the different body types by expanding and contracting in different locations and amounts when worn by the different body types. The tubular structure is elastically expandible to widen the tubular girth at selected locations and amounts where needed to fit a body type, and is elastically contractible to narrow the tubular girth at selected locations and amounts where needed to fit the body type.

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In FIGS. 1 and 2, the tubular structure is shaped and formed as a one-sheet hyperboloid cylinder to fit a body type having a tapered torso that tapers approximately from shoulder to waist. The perimeter profile of the one-sheet hyperboloid cylinder has hyperbolic shaped sides. Alternatively, the tubular structure is shaped and formed as a straight-sided cylinder, for example, as disclosed in FIG. 6. The perimeter profile of the straight sided cylinder has substantially straight sides.

Preferably, the stretchable fabric is woven or knitted to form a continuous, seamless tubular structure, such that the garment 100 is comfortable to wear due to the absence of seams that would tend to press against the torso.

FIG. 3 discloses an alternative embodiment in which the garment upper portion 102 is provided with belly cradling support in the form of a series of sewn stitches or knitted tension at 300, 302, 304, 306, 308, 310, 312, and 314 in the belly panel 124. The knitted tension or stitches extend along multiple stitch paths grouped in an elliptical pattern that curves so as to cradle a curved growing abdomen, FIG. 1A, during various stages of pregnancy.

FIG. 4 discloses an alternative embodiment in which the backside of the garment upper portion 102 is provided with spinal column and back support for a wearer of the garment, in the form of a series of sewn supporting stitches or knitted tension at 400, 402, 404, 406, 408, 410, 412, 414, 416, 418 in the fabric, wherein the supporting knitted tension or stitches stiffen the fabric at the backside of the garment upper portion 102 to provide spinal and back support of the wearer of the garment 100. For example, the series of supporting stitches are arranged along multiple stitch paths grouped in a hyperbolic pattern or other curved pattern along an axis extending substantially vertically along a spinal supporting section of the fabric. FIG. 5 discloses an alternative pattern of supporting stitches 500, 502, 504, 506, 508, 510, 512, 514 in the fabric, wherein the supporting stitches are arranged along multiple stitch paths. For example, the stitch paths are shown as being grouped in a truncated, v-shaped pattern.

FIG. 6 discloses the garment upper portion 102 comprising a fabric woven or knitted to form a tubular structure, wherein the fabric of the tubular structure is doubled back on itself downward from the top circumference 134 thereof to form a double-layer tubular structure 600 that extends downward at least for a portion of the garment upper portion 102. The layers of the double-layer tubular structure 600 are sewn together with a tubular perimeter drop stitch 602. The layers are further sewn with a top, tubular perimeter hem stitch 132 as described in FIG. 1. In an alternative embodiment disclosed by FIG. 6, the fabric is doubled back over an inner tubular layer of stretchable fabric 604, shown in phantom outline by and between the stitches 132, 602, that is flatly layered and sewn in between the two tubular layers of the double layer fabric. The three tubular layers are sewn together with the top, tubular perimeter drop stitch 602 and the top, tubular perimeter hem stitch 132 as described in FIG. 1. The inner layer 604 of stretchable fabric provides the belly panel 124 with the capability for resilient expansion. In another embodiment, the double layer fabric comprises a stretch fabric woven or knitted with elastically stretchable and contractible yarns, providing the belly panel with the capability for resilient expansion.

FIG. 7 discloses that the garment 100 of FIG. 6 is convertible to comprise a bottom garment without a top, the garment upper portion 102 is foldable toward the garment lower portion 104 to provide a folded band 700 on the garment lower portion 104, which is to be worn solely as a garment bottom 104 having the folded band 700, and having no top. Each of the other embodiments of the garment 100 is similarly con-

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vertible by adding the stretchable fabric 604 to the upper garment portion 102 of the other embodiment of the garment 100, and folding the garment upper portion 102 toward the garment lower portion 104 to provide a folded band 700 on the garment lower portion 104 of the other embodiment of the garment 100.

This description of the exemplary embodiments is intended to be read in connection with the accompanying drawings, which are to be considered part of the entire written description. In the description, relative terms such as "lower," "upper," "horizontal," "vertical," "above," "below," "up," "down," "top" and "bottom" as well as derivatives thereof (e.g., "horizontally," "downwardly," "upwardly," etc.) should be construed to refer to the orientation as then described or as shown in the drawing under discussion. These relative terms are for convenience of description and do not require that the apparatus be constructed or operated in a particular orientation. Terms concerning attachments, coupling and the like, such as "connected" and "interconnected," refer to a relationship wherein structures are secured or attached to one another either directly or indirectly through intervening structures, as well as both movable or rigid attachments or relationships, unless expressly described otherwise.

Although the invention has been described in terms of exemplary embodiments, it is not limited thereto. Rather, the appended claims should be construed broadly, to include other variants and embodiments of the invention, which may be made by those skilled in the art without departing from the scope and range of equivalents of the invention.

What is claimed is:

1. A garment portion having an attached belly panel portion comprising:

an expansible belly panel adapted to substantially cover a wearer's entire belly region, said belly region comprising an area beginning just beneath the wearer's breast area and extending over the wearer's abdomen to a lower abdomen region beneath the wearer's belly, said belly panel comprising:

an upper edge portion defining a first encircling circumference about a wearer's torso that is at or above the wearer's upper abdomen region, and

a lower edge portion spaced from the upper edge portion and defining a second encircling circumference about the wearer's lower abdomen region;

and

a garment lower portion, in communication with the lower edge portion, having a torso encircling circumference that recedes downward to make way for expansion of the belly panel.

2. The garment portion of claim 1, further comprising a pair of trousers attached to said lower edge portion.

3. The garment portion of claim 2, wherein said trousers comprise denim jeans.

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4. The garment portion of claim 3, wherein said denim jeans comprise one or more pockets and a sewn zipperless fly front.

5. The garment portion of claim 1, further comprising a skirt attached to said lower edge portion.

6. The garment portion of claim 1, wherein said belly panel is adapted to cover the wearer's belly region during different stages of weight gains and losses.

7. The garment portion of claim 1, wherein said belly panel is adapted to substantially cover and fit over different body types.

8. The garment portion of claim 1, wherein the belly panel is elastically expansible and contractible.

9. The garment portion of claim 1, wherein the belly panel is seamless to fit comfortably while being worn.

10. The garment portion of claim 1, wherein the belly panel is foldable to comprise a folded band.

11. The garment portion of claim 1, wherein the belly panel is woven or knitted with elastic, stretchable strands.

12. The garment portion of claim 1, wherein a top edge margin of the belly panel is folded over and sewn or knitted to an inside of the belly panel fabric.

13. The garment portion of claim 1, wherein the belly panel comprises a double layer tubular structure.

14. The garment portion of claim 1, wherein the belly panel further comprises a partial waistband extending across a back side of the lower edge portion and extending down into side seams of an article of clothing connected thereto.

15. The garment portion of claim 1, wherein the belly panel further comprises one or more belly-cradling stitches or knitted tension to cradle the wearer's abdomen region.

16. The garment portion of claim 1, wherein the lower edge portion is configured to extend downward with a parabolic shape to accommodate the wearer's expanding belly region.

17. *The garment portion of claim 15, wherein the stitches or knitted tension extend along multiple paths arranged in an elliptical pattern that curves, so as to cradle a curved abdomen.*

18. *The garment portion of claim 1, further comprising a series of stitches or knitted tension in a backside of the garment portion to provide spinal and back support against the wearer.*

19. *The garment portion of claim 18, wherein the series of stitches or knitted tension extends along a pattern of multiple stitch paths.*

20. *The garment portions of claim 1, wherein the belly panel defines a tubular structure that is shaped and formed as a hyperboloid cylinder to fit a body type having a tapered torso.*

21. *The garment portion of claim 1, wherein the belly panel defines a tubular structure that is shaped and formed as a straight-sided cylinder to fit a body type having a correspondingly shaped torso.*

* * * * *

FOR THE WESTERN DISTRICT OF PENNSYLVANIA — DESIGNATION FORM to be used by counsel to indicate the category of the case for the purpose of assignment to an appropriate calendar.

Address of Plaintiff: 456 North 5th Street, Philadelphia, PA 19123-4007

Address of Defendant: 1000 Nicollet Mall, Minneapolis, MN 55403

12 5680

Place of Accident, Incident or Transaction: (Use Reverse Side For Additional Space)

Does this civil action involve a nongovernmental corporate party with any parent corporation and any publicly held corporation owning 10% or more of its stock? (Attach two copies of the Disclosure Statement Form in accordance with Fed.R.Civ.P. 7.1(e)) Yes No

Does this case involve multidistrict litigation possibilities? Yes No

RELATED CASE, IF ANY:

Case Number: Judge Date Terminated:

Civil cases are deemed related when yes is answered to any of the following questions:

- 1. Is this case related to property included in an earlier numbered suit pending or within one year previously terminated action in this court? Yes No
2. Does this case involve the same issue of fact or grow out of the same transaction as a prior suit pending or within one year previously terminated action in this court? Yes No
3. Does this case involve the validity or infringement of a patent already in suit or any earlier numbered case pending or within one year previously terminated action in this court? Yes No
4. Is this case a second or successive habeas corpus, social security appeal, or pro se civil rights case filed by the same individual? Yes No

CIVIL: (Place in ONE CATEGORY ONLY)

A. Federal Question Cases:

- 1. Indemnity Contract, Marine Contract, and All Other Contracts
2. FELA
3. Jones Act-Personal Injury
4. Antitrust
5. Patent
6. Labor-Management Relations
7. Civil Rights
8. Habeas Corpus
9. Securities Act(s) Cases
10. Social Security Review Cases
11. All other Federal Question Cases (Please specify)

B. Diversity Jurisdiction Cases:

- 1. Insurance Contract and Other Contracts
2. Airplane Personal Injury
3. Assault, Defamation
4. Marine Personal Injury
5. Motor Vehicle Personal Injury
6. Other Personal Injury (Please specify)
7. Products Liability
8. Products Liability --- Asbestos
9. All other Diversity Cases (Please specify)

ARBITRATION CERTIFICATION

(Check Appropriate Category)

I, counsel of record do hereby certify:
Pursuant to Local Civil Rule 53.2, Section 3(c)(2), that to the best of my knowledge and belief, the damages recoverable in this civil action case exceed the sum of \$150,000.00 exclusive of interest and costs;
Relief other than monetary damages is sought.

DATE: Attorney-at-Law Attorney I.D.#

NOTE: A trial de novo will be a trial by jury only if there has been compliance with F.R.C.P. 38.

I certify that, to my knowledge, the within case is not related to any case now pending or within one year previously terminated action in this court except as noted above.

DATE: 10/4/2012 Michael Burns, Esquire 204,365
Attorney-at-Law Attorney I.D.#

CIV. 609 (5/2012)