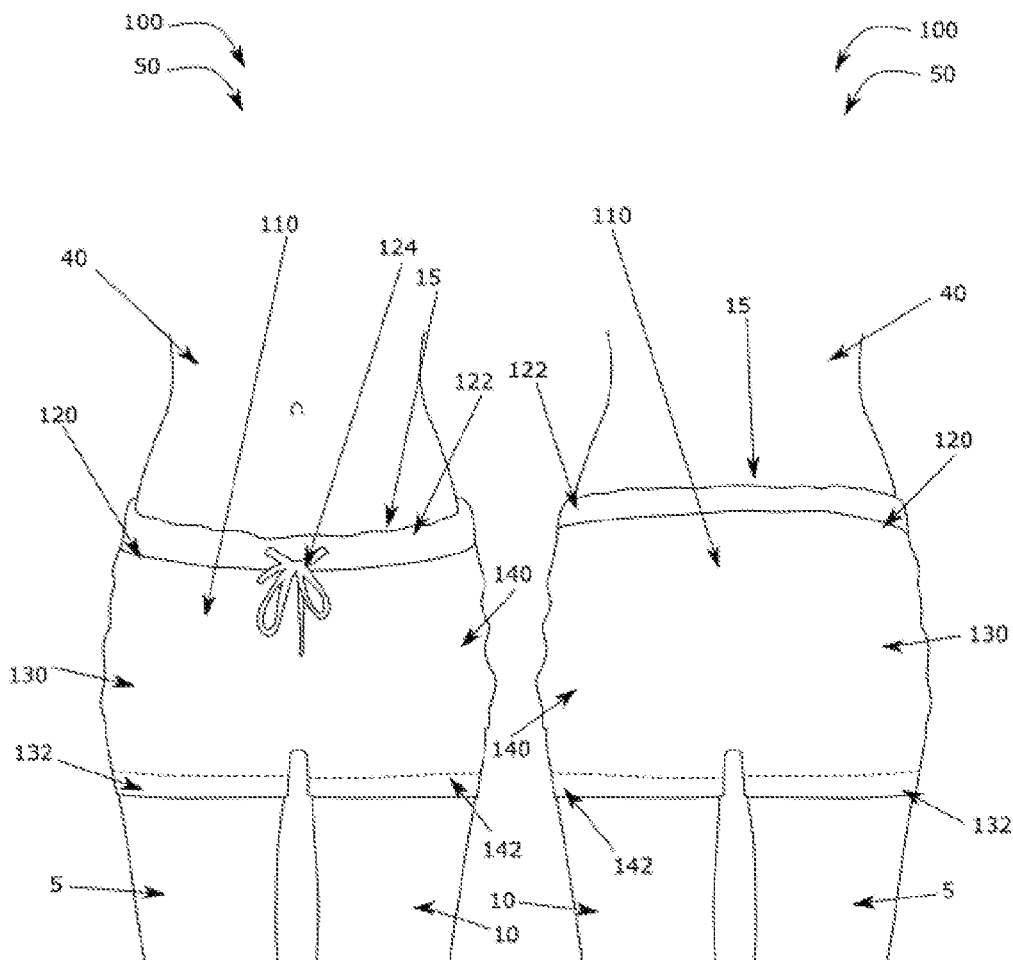


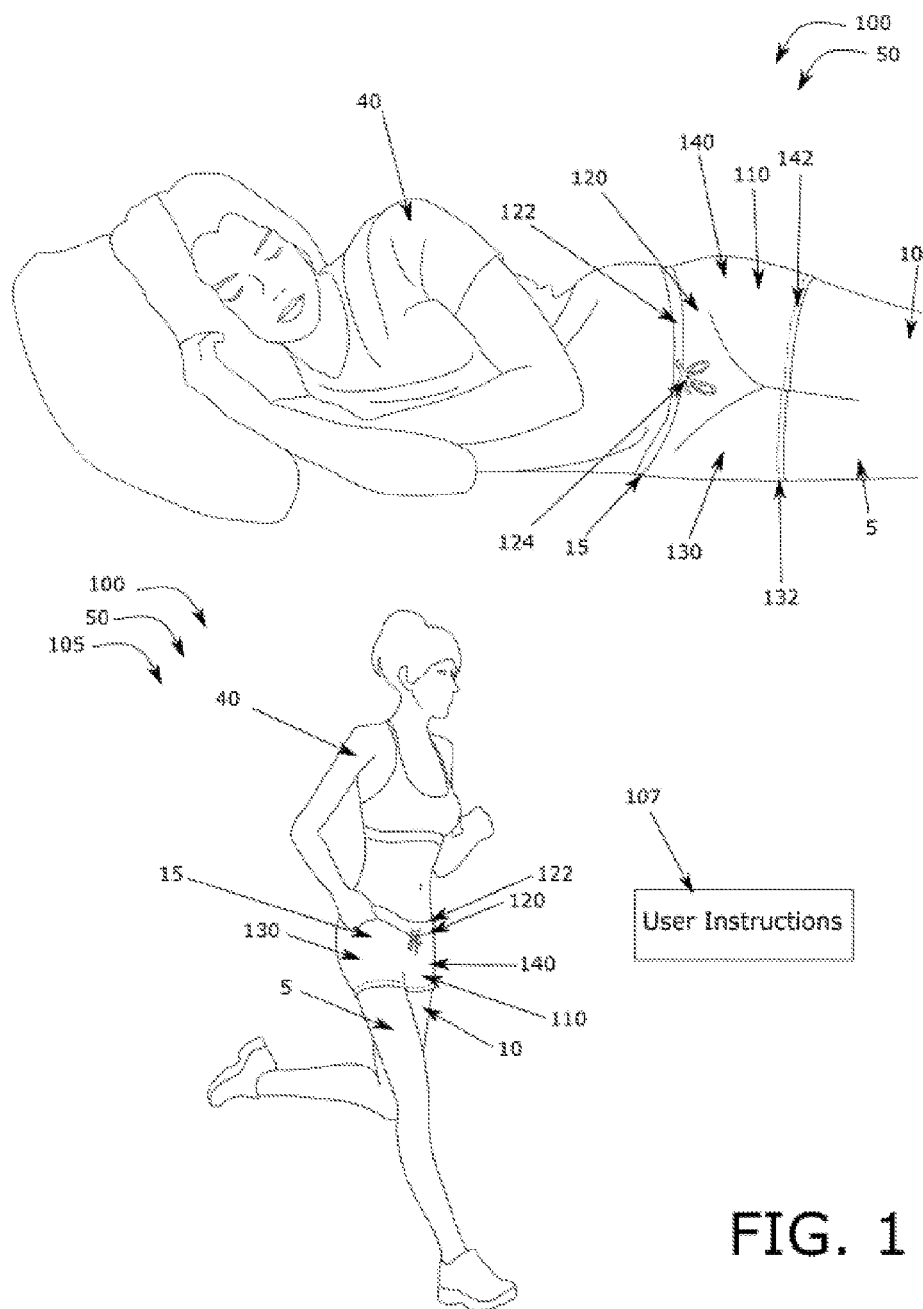


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(19) **United States**(12) **Patent Application Publication**
Benkirane(10) **Pub. No.: US 2018/0098581 A1**(43) **Pub. Date: Apr. 12, 2018**(54) **MULTI-FUNCTION GARMENT SYSTEM
AND METHOD***A41D 10/00* (2006.01)*A41D 27/24* (2006.01)(71) Applicant: **Aida Benkirane**, Ottawa (CA)(52) **U.S. Cl.**CPC *A41D 1/06* (2013.01); *A41D 27/24*
(2013.01); *A41D 10/00* (2013.01); *A41F 9/025*
(2013.01)(72) Inventor: **Aida Benkirane**, Ottawa (CA)(21) Appl. No.: **15/728,335**(22) Filed: **Oct. 9, 2017**(57) **ABSTRACT****Related U.S. Application Data**(60) Provisional application No. 62/405,854, filed on Oct.
7, 2016.**Publication Classification**(51) **Int. Cl.***A41D 1/06* (2006.01)*A41F 9/02* (2006.01)

A multi-function garment includes a base-layer, a waist-portion, a right leg-portion, a left-leg portion, and a crotch-portion. The multi-function garment may feature a loose-fitting waist, tight-fitting legs, and no front or back sewing. This may eliminate the need to wear underwear with the multi-function garment, whilst wearing the multi-function garment during a plurality of activities such as sleep, exercise, errands, etc.





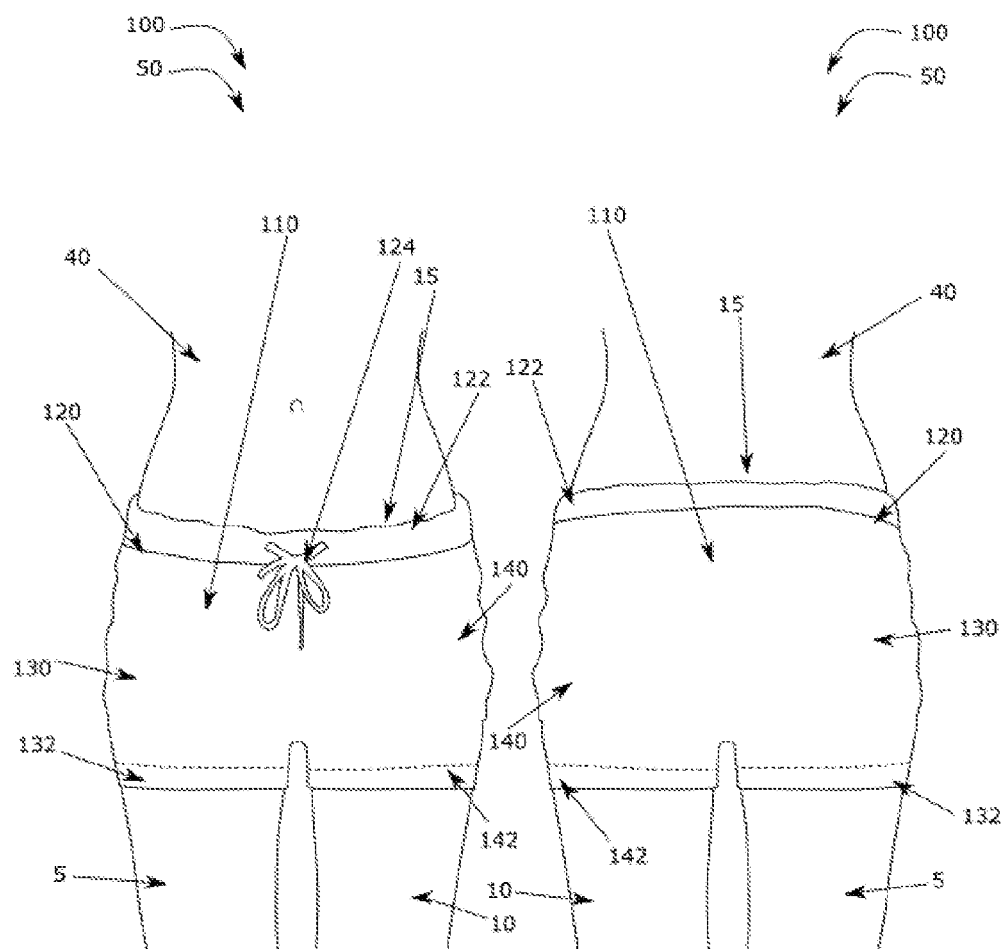


FIG. 2

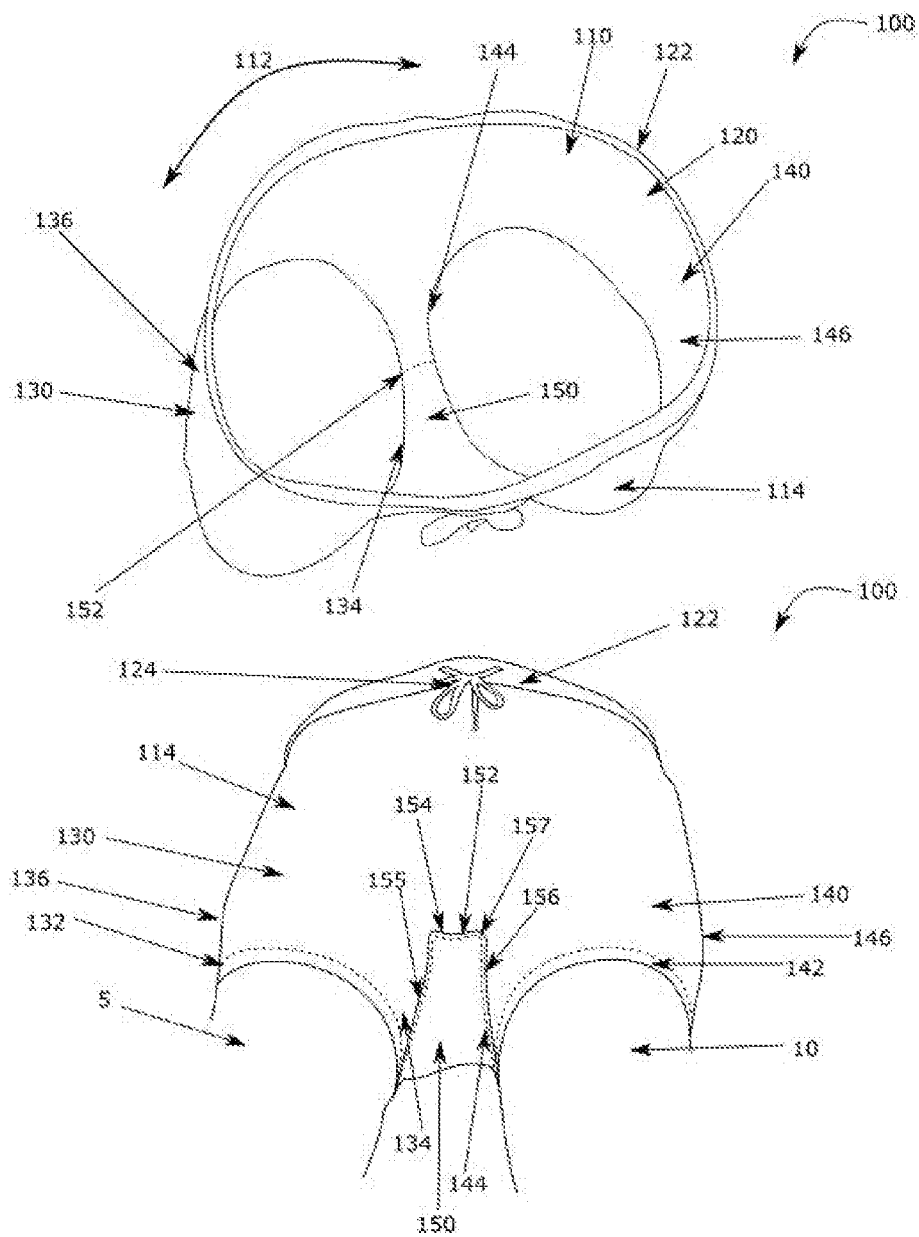


FIG. 3

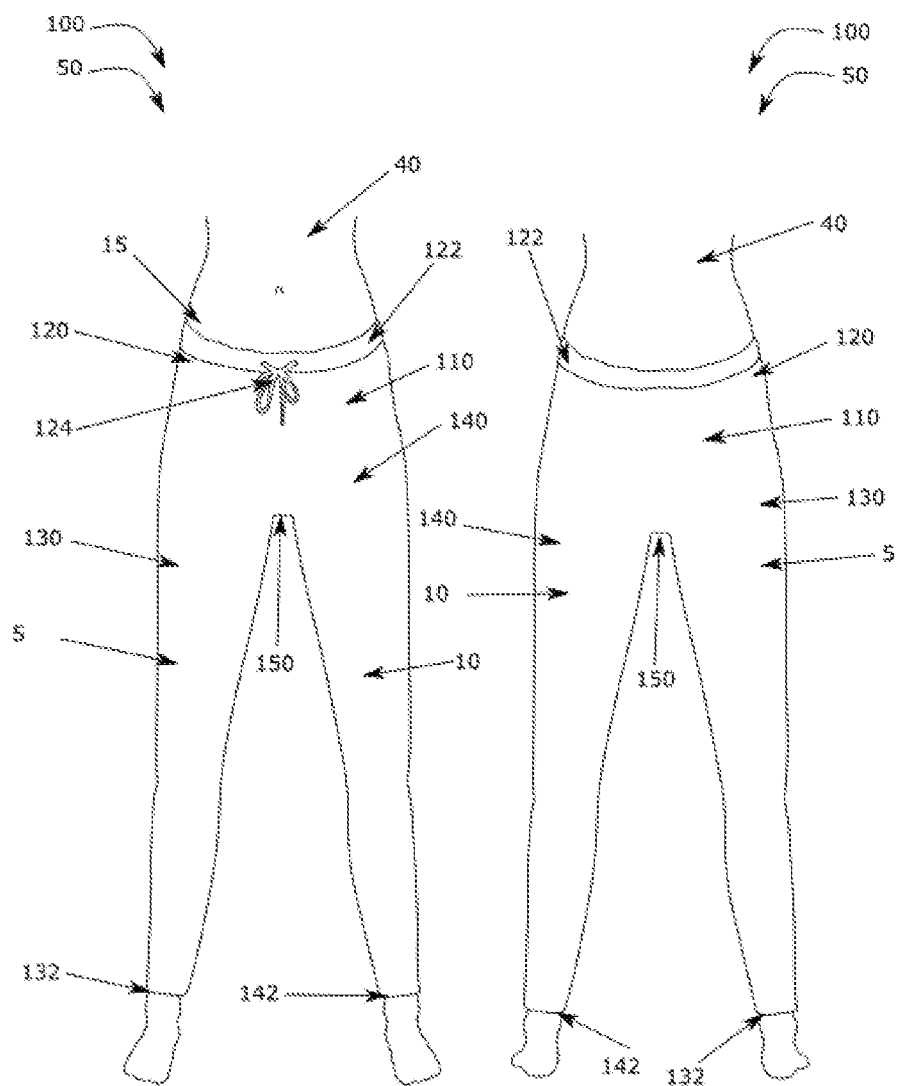


FIG. 4

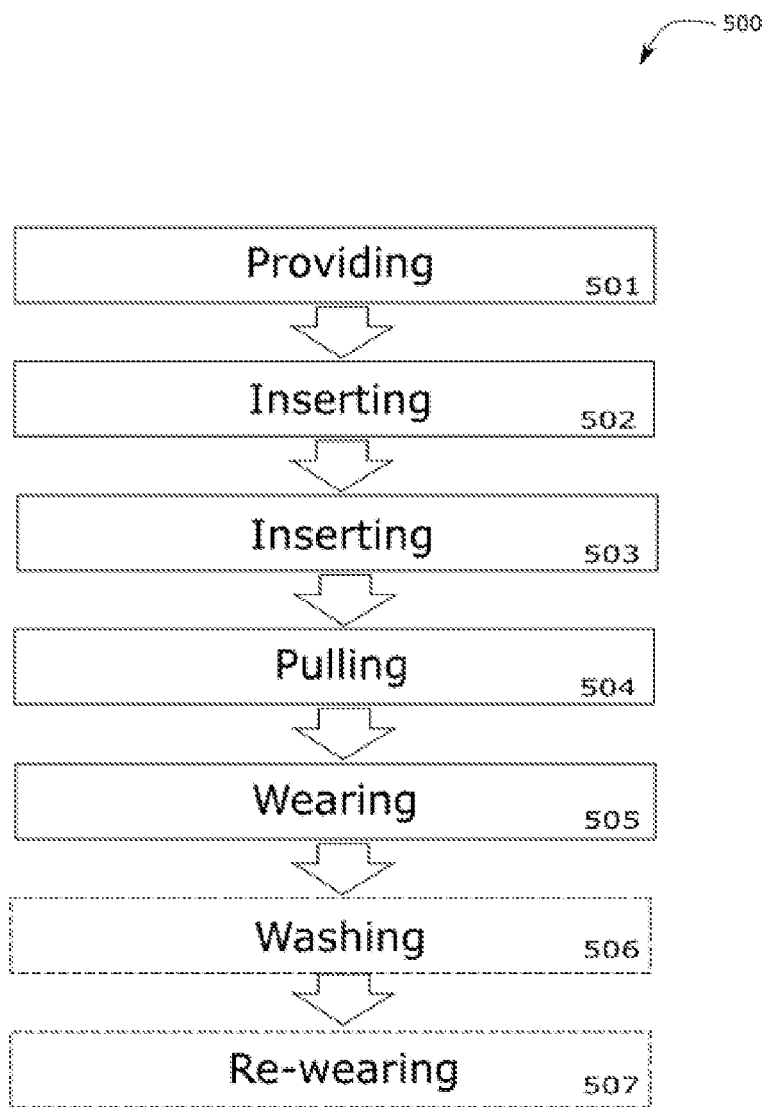


FIG. 5

MULTI-FUNCTION GARMENT SYSTEM AND METHOD

CROSS REFERENCE TO RELATED APPLICATION

[0001] The present application is related to and claims priority to U.S. Provisional Patent Application No. 62/405,854 filed Oct. 7, 2016, which is incorporated by reference herein in its entirety.

BACKGROUND OF THE INVENTION

[0002] The following includes information that may be useful in understanding the present disclosure. It is not an admission that any of the information provided herein is prior art nor material to the presently described or claimed inventions, nor that any publication or document that is specifically or implicitly referenced is prior art.

1. Field of the Invention

[0003] The present invention relates generally to the field of garments and more specifically relates to multi-function lower-body garments.

2. Description of Related Art

[0004] Conventional comfort wear shorts are often wide or loose at the leg and are prone to riding up when sitting and sleeping. This may cause issues to the wearer as the comfort shorts become irritating, painful, and revealing, especially for those people who prefer to sleep without undergarments. Further, legging-style shorts can be too tight around the waist and too revealing for those people who prefer to sleep without undergarments.

[0005] Some people may opt for bottom undergarments without front and back sewing, but such garments are typically too short and tight and cannot be worn in public or in front of other people at home. Thus, a suitable solution is desired.

[0006] U.S. Pub. No. 2013/0047318 to Kelli Diane Grate relates to a flattering convertible casual/sleep pants. The described flattering convertible casual/sleep pants includes a multi-use garment that is flattering while also providing warmth and sleep comfort. The pants can be worn for sleep or lounging during cool weather, and yet convert to a flattering style that is appropriate for casual wear in public. These pants have ribbed cuffs at the ankles, which can be used in two ways: 1) the cuffs can be pulled down over the feet for warmth while sleeping or lounging; or 2) the cuffs can be worn at the ankle with the drapey pants fabric hanging down around them, hiding the cuffs underneath and making them appropriate to be worn in public. Further, the cuffs can be turned up or down, easily accommodating both longer and shorter legs.

BRIEF SUMMARY OF THE INVENTION

[0007] In view of the foregoing disadvantages inherent in the known garments art, the present disclosure provides a novel multi-function garment. The general purpose of the present disclosure, which will be described subsequently in greater detail, is to provide a multi-function garment useful for wear by a human-user during a plurality of activities.

[0008] A multi-function garment is disclosed herein. The multi-function garment includes a base-layer made from a

fabric material. The base-layer may be defined by a waist-portion, a right leg-portion, a left-leg portion and a crotch-portion relative the human-user, and the right leg-portion, the left leg-portion and the crotch-portion may be connected via a single crotch-seam. The waist-portion may include a waist-band configured to loosely encircle the waist of the human-user during wear. Further, the right leg-portion may include a first tapered-bottom configured to tightly encircle the right leg of the human-user during the wear, and similarly, the left leg-portion may include a second tapered-bottom configured to tightly encircle the left leg of the human-user during the wear.

[0009] A method of using the multi-function garment is also disclosed herein. The method of using the multi-function garment may comprise the steps of: providing a multi-function garment as above; inserting a right leg of the human-user through the waist-portion of the multi-function garment; inserting a left leg of the human-user through the waist-portion of the multi-function garment; pulling the multi-function garment up a lower-body of the human-user such that the waist-band loosely encircles the waist of the human-user, the right leg-portion tightly encircles the right leg of the human-user and the left leg-portion tightly encircles the left leg of the human-user; and wearing the multi-function garment during a plurality of activities.

[0010] For purposes of summarizing the invention, certain aspects, advantages, and novel features of the invention have been described herein. It is to be understood that not necessarily all such advantages may be achieved in accordance with any one particular embodiment of the invention. Thus, the invention may be embodied or carried out in a manner that achieves or optimizes one advantage or group of advantages as taught herein without necessarily achieving other advantages as may be taught or suggested herein. The features of the invention which are believed to be novel are particularly pointed out and distinctly claimed in the concluding portion of the specification. These and other features, aspects, and advantages of the present invention will become better understood with reference to the following drawings and detailed description.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011] The figures which accompany the written portion of this specification illustrate embodiments and methods of use for the present disclosure, a multi-function garment, constructed and operative according to the teachings of the present disclosure.

[0012] FIG. 1 is a side perspective view of the multi-function garment during an 'in-use' condition, according to an embodiment of the disclosure.

[0013] FIG. 2 is a front and rear perspective view of the multi-function garment of FIG. 1, according to an embodiment of the present disclosure.

[0014] FIG. 3 is a top perspective view of the multi-function garment of FIG. 1, illustrating a single seam, according to an embodiment of the present disclosure.

[0015] FIG. 4 is a front perspective view of the multi-function garment of FIG. 1, according to an alternative embodiment of the present disclosure.

[0016] FIG. 5 is a flow diagram illustrating a method of use for the multi-function garment, according to an embodiment of the present disclosure.

[0017] The various embodiments of the present invention will hereinafter be described in conjunction with the appended drawings, wherein like designations denote like elements.

DETAILED DESCRIPTION

[0018] As discussed above, embodiments of the present disclosure relate to garments and more particularly to a multi-function garment as used to improve the functionality of garments used to provide comfort during a plurality of activities.

[0019] Generally disclosed is a versatile and comfortable pair of shorts, pants, capris, or all-in-one suit that can be worn to sleep, work out, run errands, and more. The garment may feature a loose-fitting waist, tight-fitting legs, and no front and back sewing for superior comfort, protection, and privacy without the need to wear underwear. This may eliminate the need to wear traditional loungewear, athletic wear, and other garments that ride up with movement.

[0020] The present disclosure may offer a shorts or pants version, which can be offered in different lengths, like capris and Bermuda shorts, to accommodate all users' needs, and may be worn by both men and women. The pair of shorts may be worn without undergarments, thus increasing a person's overall level of comfort. This level of comfort may be achieved via a loose fit around the waist and crotch area without being excessively large; a tight fit around the legs; and a lack of front and back sewing. The garment may be made from tube cloth to minimize seams and reduce manufacturing costs. The tube cloth may be cut at a desired length and a seam may be sewed from the inner leg to the crotch to the other inner leg. The seam may resemble a U-like shape with smooth or right angles which does not fit too tightly around the crotch area.

[0021] Leg portions of the garment may be tight fitting and may include elastics, drawstrings, lace, or other systems to ensure the tight fit remains, allowing wearers to forgo underwear without compromising privacy. The waistband may be made from elastic or include drawstrings, lace, or other systems for a proper, loose fit. Further, the garment may be offered in a wide range of materials, which can be slightly stretchy, including jersey knit, silky, cotton, mesh, and more to accommodate the plurality of activities.

[0022] Referring now more specifically to the drawings by numerals of reference, there is shown in FIGS. 1-4, various views of a multi-function garment 100.

[0023] FIG. 1 shows a multi-function garment 100 during an 'in-use' condition 50, according to an embodiment of the present disclosure. As illustrated, the multi-function garment 100 may include a base-layer 110, a waist-portion 120, a right leg-portion 130, a left-leg portion 140 and a crotch-portion 150 relative the human-user 40. As demonstrated, the multi-function garment 100 may be worn by the human-user 40 during sleep, exercise, errands and the like.

[0024] According to one embodiment, the multi-function garment 100 may be arranged as a kit. The kit may include a set of instructions 50. The instructions 50 may detail functional relationships in relation to the structure of the multi-function garment 100 (such that the multi-function garment 100 can be used, maintained, or the like, in a preferred manner).

[0025] FIG. 2 shows a front perspective view of the multi-function garment 100 of FIG. 1, according to an embodiment of the present disclosure. The base-layer 110

may be made from a fabric material 114. Further, the base-layer 110 may be defined by the waist-portion 120, the right leg-portion 130, the left-leg portion 140 and the crotch-portion 150 relative the human-user 40, and the right leg-portion 130, the left leg-portion and the crotch-portion 150 may be connected via a single crotch-seam 152.

[0026] The waist-portion 120 may include a waist-band 122 configured to loosely encircle the waist of the human-user 40 during wear. The waist-band 122 may include a waist-circumference at least half an inch larger than a measured-waist-circumference of the waist of the human-user 40. The waist-band 122 may further include a size adjustment means 124 configured to allow the human-user 40 to adjust the waist-circumference of the waist-band 122. In a preferred embodiment, the size adjustment means 124 may be an elastic drawstring. In another embodiment, the size adjustment means 124 may be a drawstring that does not include elastic. In other embodiments, the size adjustment means 124 may be lace, ribbon, and the like.

[0027] Further, the right leg-portion 130 may include a first tapered-bottom 132 configured to tightly encircle the right leg of the human-user 40 during wear. Similarly, the left leg-portion may include a second tapered-bottom 142 configured to tightly encircle the left leg of the human-user 40 during wear. The first tapered-bottom 132 of the right leg-portion 130 may have a right-leg-circumference 5 equal to a measured-right-thigh-circumference of a right thigh of the human-user 40, and similarly, the second tapered-bottom 142 of the left leg-portion has a left-leg-circumference 10 equal to a measured-left-thigh-circumference of a left thigh of the human-user 40.

[0028] Referring now to FIG. 3 showing a front perspective view of the multi-function garment 100 of FIG. 1, according to an embodiment of the present disclosure. As above, the base-layer 110 may be made from a fabric material 114. Further, as shown, the base-layer 110 may be formed into a continuous loop 112. For example, the base-layer 110 may be cut from tube cloth to minimize the need for a plurality of seams. In another embodiment, the base-layer 110 may be formed by sewing two fabric panels together along a first inner-leg side 134, the crotch-portion 150, a second inner leg side 144, a first outer-leg side 136 and a second outer-leg side 146. In each embodiment of the disclosure, it should be appreciated that a back-side and a front-side of the base-layer 110 may not include seams.

[0029] As shown, the right leg-portion 130 may include the first inner-leg side 134 and the first outer-leg side 136 opposite the first inner-leg side 134 and relative the human-user 40. Similarly, the left leg-portion may include the second inner-leg side 144 and the second outer-leg side 146 opposite the second inner-leg side 144 and relative the human-user 40. Further, the single crotch-seam 152 may be a U-shape 154 seam including a first-edge 155, a second-edge 156 opposite the first-edge 155, and a curve 157 connecting the first-edge 155 and the second-edge 156. The curve 157 of the U-shape 154 seam may be located at the crotch-portion 150, the first-edge 155 of the U-shape 154 seam may be located at the first inner-leg side 134, and the second-edge 156 of the U-shape 154 seam may be located at the second inner-leg side 144.

[0030] In the preferred embodiment, the fabric material 114 may be a stretch fabric. In this embodiment, the stretch fabric may be a jersey knit. However, in other embodiments, the stretch fabric may be spandex, elastane, neoprene and

the like. In other embodiments, the fabric material **114** may be selected from cotton, mesh, silk, polyester, wool, and the like. It should be appreciated that the fabrics listed are not an exhaustive list, and that the multi-function garment **100** may be manufactured from a plurality of different materials.

[0031] FIG. 4 shows a front perspective view of the multi-function garment **100** of FIG. 1, according to an embodiment of the present disclosure. As above, the multi-function garment **100** may include the base-layer **110**, the waist-portion **120**, the right leg-portion **130**, the left-leg portion **140** and the crotch-portion **150** relative the human-user **40**. In one embodiment, the multi-function garment **100** may be a pair of shorts. As shown in the present figure, in another embodiment, the multi-function garment **100** may be a pair of pants. The pants may be manufactured in a variety of lengths including Bermuda shorts, capris, and the like. In one embodiment, the multi-function garment **100** may be manufactured for maternity wear. In this embodiment, the waist-band **122** may be manufactured to loosely encircle a pregnant stomach of the human-user **40**. It should be appreciated that the multi-function garment **100** is not limited to shorts or pants, and may include all-in-one suits such as onesie's, rompers, jumpsuits, and the like.

[0032] FIG. 5 is a flow diagram illustrating a method of wearing **100** a multi-function garment **100**, according to an embodiment of the present disclosure. As illustrated, the method of wearing **100** a multi-function garment **100** may include the steps of: step one **501**, providing the multi-function garment **100** as above; step two **502** inserting a right leg of the human-user **40** through the waist-portion **120** of the multi-function garment **100**; step three **503**, inserting a left leg of the human-user **40** through the waist-portion **120** of the multi-function garment **100**; step four **504** pulling the multi-function garment **100** up a lower-body of the human-user **40** such that the waist-band **122** loosely encircles the waist of the human-user **40**, the right leg-portion **130** tightly encircles the right leg of the human-user **40** and the left leg-portion tightly encircles the left leg of the human-user **40**; and step five **505**, wearing the multi-function garment **100** during a plurality of activities. Further steps may include: step six **506**, washing the multi-function garment **100**; and step seven **507**, re-wearing the multi-function garment **100**.

[0033] It should be noted that step six **506** and step seven **507** are optional steps and may not be implemented in all cases. Optional steps of method of use **500** are illustrated using dotted lines in FIG. 5 so as to distinguish them from the other steps of method of use **500**. It should also be noted that the steps described in the method of use can be carried out in many different orders according to user preference. The use of "step of" should not be interpreted as "step for", in the claims herein and is not intended to invoke the provisions of 35 U.S.C. § 112(f). It should also be noted that, under appropriate circumstances, considering such issues as design preference, user preferences, marketing preferences, cost, structural requirements, available materials, technological advances, etc., other methods for multi-function garment **100** (e.g., different step orders within above-mentioned list, elimination or addition of certain steps, including or excluding certain maintenance steps, etc.), are taught herein.

[0034] The embodiments of the invention described herein are exemplary and numerous modifications, variations and rearrangements can be readily envisioned to achieve sub-

stantially equivalent results, all of which are intended to be embraced within the spirit and scope of the invention. Further, the purpose of the foregoing abstract is to enable the U.S. Patent and Trademark Office and the public generally, and especially the scientist, engineers and practitioners in the art who are not familiar with patent or legal terms or phraseology, to determine quickly from a cursory inspection the nature and essence of the technical disclosure of the application.

What is claimed is new and desired to be protected by Letters Patent is set forth in the appended claims:

1. A multi-function garment for wear by a human-user, the human-user including a right leg, a left leg and a waist, the multi-function garment comprising:

a base-layer being made from a fabric material, the base-layer defined by a waist-portion, a right leg-portion, a left-leg portion and a crotch-portion relative the human-user, the right leg-portion, the left leg-portion and the crotch-portion being connected via a single crotch-seam; and

wherein the waist-portion includes a waist-band configured to loosely encircle the waist of the human-user during wear;

wherein the right leg-portion includes a first tapered-bottom configured to tightly encircle the right leg of the human-user during said wear; and

wherein the left leg-portion includes a second tapered-bottom configured to tightly encircle the left leg of the human-user during said wear.

2. The multi-function garment of claim 1, wherein the waist-band has a waist-circumference at least half an inch larger than a measured-waist-circumference of the waist of the human-user.

3. The multi-function garment of claim 1, wherein the first tapered-bottom of the right leg-portion has a right-leg-circumference equal to a measured-right-thigh-circumference of a right thigh of the human-user.

4. The multi-function garment of claim 1, wherein the second tapered-bottom of the left leg-portion has a left-leg-circumference equal to a measured-left-thigh-circumference of a left thigh of the human-user.

5. The multi-function garment of claim 2, wherein the waist-band further includes a size adjustment means configured to allow the human-user to adjust the waist-circumference of the waist-band.

6. The multi-function garment of claim 5, wherein the size adjustment means is an elastic drawstring.

7. The multi-function garment of claim 1, wherein the fabric material is a stretch fabric.

8. The multi-function garment of claim 1, wherein the stretch fabric is jersey knit.

9. The multi-function garment of claim 1, wherein the fabric material is cotton.

10. The multi-function garment of claim 1, wherein the fabric material is mesh material.

11. The multi-function garment of claim 1, wherein the fabric material is silk material.

12. The multi-function garment of claim 1, wherein the multi-function garment is a pair of shorts.

13. The multi-function garment of claim 1, wherein the multi-function garment is a pair of pants.

14. The multi-function garment of claim 1, wherein the right leg-portion includes a first inner-leg side and a first outer-leg side opposite the first inner-leg side and relative the human-user.

15. The multi-function garment of claim 14, wherein the left leg-portion includes a second inner-leg side and a second outer-leg side opposite the second inner-leg side and relative the human-user.

16. The multi-function garment of claim 15, wherein the single crotch-seam is a U-shape seam including a first-edge, a second-edge opposite the first-edge, and a curve connecting the first-edge and the second-edge; and

wherein the curve of the U-shape seam is located at a crotch-portion; and

wherein the first-edge of the U-shape seam is located at the first inner-leg side; and

wherein the second-edge of the U-shape seam is located at the second inner-leg side.

17. A multi-function garment for wear by a human-user, the human-user including a right leg, a left leg and a waist, the multi-function garment comprising:

a base-layer being made from a fabric material, the base-layer defined by a waist-portion, a right leg-portion, a left-leg portion and a crotch-portion relative the human-user, the right leg-portion, the left leg-portion and the crotch-portion being connected via a single crotch-seam; and

wherein the waist-portion includes a waist-band configured to loosely encircle the waist of the human-user during wear;

wherein the right leg-portion includes a first tapered-bottom configured to tightly encircle the right leg of the human-user during said wear;

wherein the left leg-portion includes a second tapered-bottom configured to tightly encircle the left leg of the human-user during said wear;

wherein the waist-band has a waist-circumference at least half an inch larger than a measured-waist-circumference of the waist of the human-user;

wherein the first tapered-bottom of the right leg-portion has a right-leg-circumference equal to a measured-right-thigh-circumference of a right thigh of the human-user;

wherein the second tapered-bottom of the left leg-portion has a left-leg-circumference equal to a measured-left-thigh-circumference of a left thigh of the human-user;

wherein the waist-band further includes a size adjustment means configured to allow the human-user to adjust the waist-circumference of the waist-band;

wherein the size adjustment means is an elastic draw-string;

wherein the fabric material is a stretch fabric;

wherein the multi-function garment is a pair of shorts;

wherein the right leg-portion includes a first inner-leg side and a first outer-leg side opposite the first inner-leg side and relative the human-user;

wherein the left leg-portion includes a second inner-leg side and a second outer-leg side opposite the second inner-leg side and relative the human-user;

wherein the single crotch-seam is a U-shape seam including a first-edge, a second-edge opposite the first-edge, and a curve connecting the first-edge and the second-edge;

wherein the curve of the U-shape seam is located at a crotch-portion;

wherein the first-edge of the U-shape seam is located at the first inner-leg side; and

wherein the second-edge of the U-shape seam is located at the second inner-leg side.

18. The multi-function garment of claim 17, further comprising set of instructions; and

wherein the multi-function garment is arranged as a kit.

19. A method of wearing a multi-function garment, the method comprising the steps of:

providing a multi-function garment for wear by a human-user, the human-user including a right leg, a left leg and a waist, the multi-function garment comprising:

a base-layer being made from a fabric material, the base-layer defined by a waist-portion, a right leg-portion, a left-leg portion and a crotch-portion relative the human-user, the right leg-portion, the left leg-portion and the crotch-portion being connected via a single crotch-seam; and

wherein the waist-portion includes a waist-band configured to loosely encircle the waist of the human-user during wear;

wherein the right leg-portion includes a first tapered-bottom configured to tightly encircle the right leg of the human-user during said wear; and

wherein the left leg-portion includes a second tapered-bottom configured to tightly encircle the left leg of the human-user during said wear;

inserting a right leg of the human-user through the waist-portion of the multi-function garment;

inserting a left leg of the human-user through the waist-portion of the multi-function garment;

pulling the multi-function garment up a lower-body of the human-user such that the waist-band loosely encircles the waist of the human-user, the right leg-portion tightly encircles the right leg of the human-user and the left leg-portion tightly encircles the left leg of the human-user; and

wearing the multi-function garment during a plurality of activities.

20. The method of claim 19, further comprising the steps of:

washing the multi-function garment; and

re-wearing the multi-function garment.

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