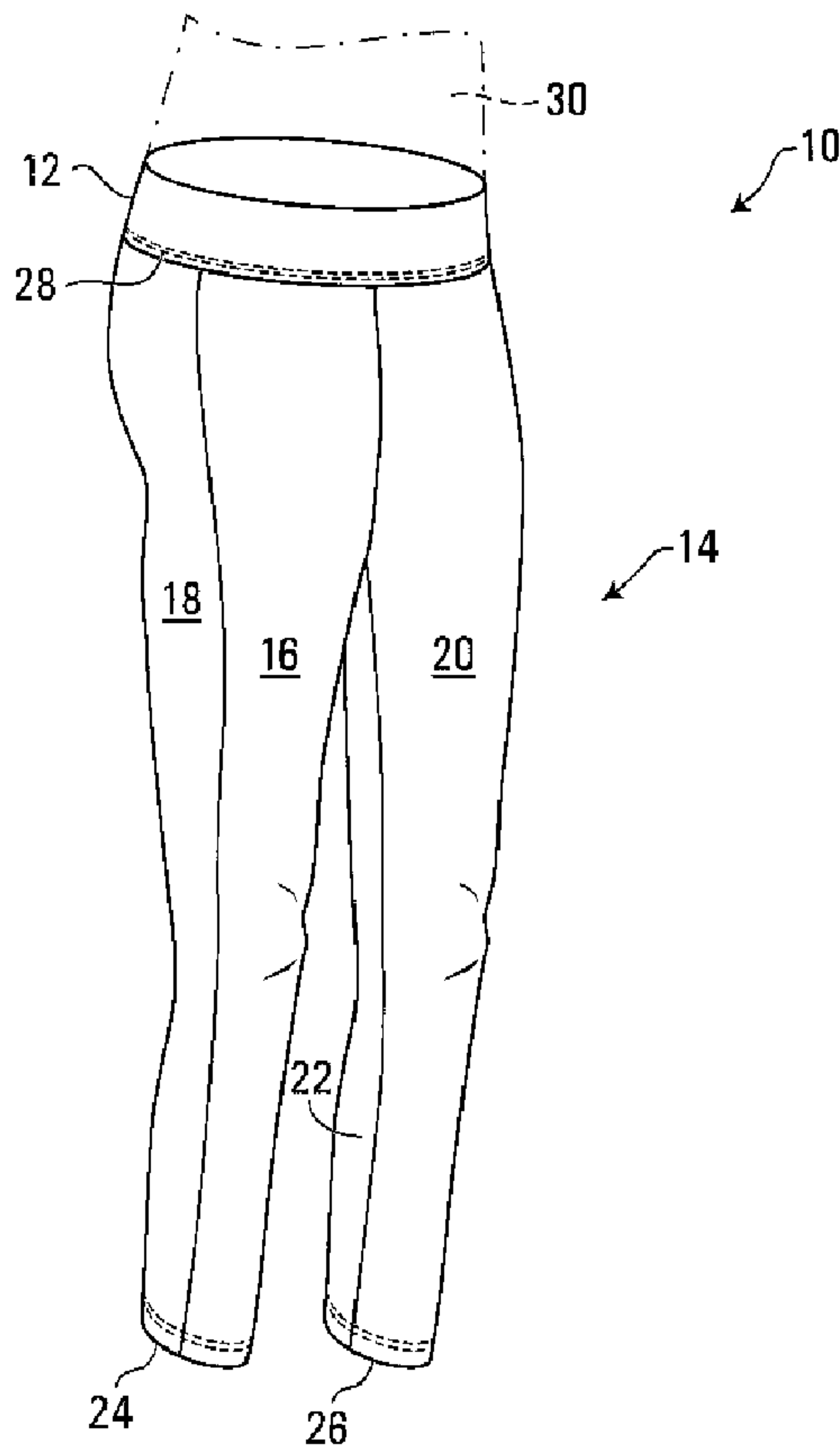




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(54) Title: PANTS



(57) **Abrégé/Abstract:**

A pair of pants has a main pants portion knitted from a yarn which is comprised of rayon, nylon and spandex extending from an elastic waistband fabricated of polyester and rubber. The main pants portion of the pants can be sized so that said fabric is in a stretched condition about the buttocks and thighs of a wearer.

ABSTRACT

A pair of pants has a main pants portion knitted from a yarn which is comprised of rayon, nylon and spandex extending from an elastic waistband fabricated of polyester and rubber. The main pants portion of the pants can be sized so that said fabric is in a stretched condition about the buttocks and thighs of a wearer.

PANTS

BACKGROUND

[0001] The present invention relates to pants (trousers).

[0002] A wide variety of pants are known, however, a need remains for an improved pants design.

SUMMARY

[0003] A pair of pants has a main pants portion fabricated of a fabric which is rayon, nylon and spandex extending from an elastic waistband that may be fabricated of polyester and rubber. The main pants portion of the pants can be sized so that said fabric is in a stretched condition about the buttocks and thighs of a wearer.

[0004] In an aspect, there is provided a pair of pants comprising: an elastic waistband comprising an elastic material of polyester and rubber; a main pants portion extending from said waistband; said main pants portion knitted from a yarn comprising rayon, nylon and spandex.

[0005] In another aspect, there is provided a pair of pants comprising an elastic waistband; a main pants portion extending from said waistband; said main pants portion knitted from a yarn which is about 70% rayon, about 27% nylon and about 3% spandex.

[0006] Other features and advantages will become apparent by reference to the following description in conjunction with the drawings.

DRAWINGS

- [0007] FIG. 1 is a front perspective view of pants made in accordance with an embodiment,
- [0008] FIG. 2 is a front view of the pants of FIG. 1,
- [0009] FIG. 3 is a rear view of the pants of FIG. 1,
- [0010] FIG. 4 is a left side view of the pants of FIG. 1,
- [0011] FIG. 5 is a right side view of the pants of FIG. 1,
- [0012] FIG. 6 is a schematic view illustrating the weave of the waistband of the pants of FIG. 1,
- [0013] FIG. 7A are patterns for the front of a leg and buttock portion of the pants of FIG. 1,
- [0014] FIG. 7B are patterns for the back of a leg and buttock portion of the pants of FIG. 1,
- [0015] FIG. 7C is a pattern of the waistband of the pants of FIG. 1,
- [0016] FIG. 8 is a front perspective view of pants made in accordance with a second embodiment,
- [0017] FIG. 9A are patterns for the front of a leg and buttock portion of the pants of FIG. 8,
- [0018] FIG. 9B are patterns for the back of a leg and buttock portion of the pants of FIG. 8, and
- [0019] FIG. 9C is a pattern of the waistband of the pants of FIG. 8.

DESCRIPTION

[0020] Turning to FIGs. 1 to 5, a pair of pants 10 has a waistband 12 and a main pants portion 14. The main pants portion has left side front panel 16 and rear panel 18 and a right side front panel 20 and rear panel 22. When the pants are worn, front panel 16 covers the left thigh and front of the left leg of the wearer 30, back panel 18 covers the left buttock and rear of the left leg of the wearer, front panel 20 covers the right thigh and front of the right leg of the wearer, and back panel 22 covers the right buttock and rear of the right leg of the user. Each leg terminates in a cuff 24, 26. A

bottom margin of the waistband **12** is stitched to a top margin of the main pants portion **14** along stitch line **28** so that the waistband extends above the main pants portion.

[0021] Each panel **16**, **18**, **20**, **22** may be knitted from a yarn which is about 70% rayon, about 27% nylon and about 3% spandex. The knitting process may be selected to provide about a **24** gauge fabric.

[0022] The waistband may have a uniform width, *W*, of at least about 3.5" (9 cm). The waistband may be woven. More specifically, turning to **FIG. 6**, the waistband may be woven such that the weft extends in a transverse direction along the waistband (i.e., parallel to the width dimension, *W*, of the waistband). The weft may be composed of yarn threads **40** and the warp of the waistband may be composed of alternating elastic threads **42** and yarn threads **44**. The alternating elastic threads and yarn threads may be further arranged in alternating first and second patterns of threads. Thus, a first pattern **50A** of three elastic threads **42** alternating with three yarn threads **44** is woven adjacent a second pattern **50B** of three elastic threads **42** alternating with three yarn threads **44**. In each first pattern **50A**, each elastic thread **42A** loops over a weft thread **40-1**, whereas in each second pattern **50B**, each elastic thread **42B** loops under weft thread **40-1**. The alternating first and second patterns **50A**, **50B** provide a textured look to the waistband. In modified embodiments, there may be a different number of threads in each pattern, such as two elastic threads and two yarn threads in each pattern. The elastic threads may be fabricated of about 65% polyester and about 35% rubber. With this construction, the waistband has elasticity in its longitudinal direction. The waistband may be coverstitched to the main pants portion **14** (**FIG. 1**) to provide a measure of elasticity in the joint between the waistband and main pants portion so as not to impede the longitudinal elasticity of the waistband.

[0023] Turning to **FIG. 7A** along with **FIGs. 4** and **5**, left front panel **16** may be patterned from extra small pattern **16XS**, small pattern **16S**, medium pattern **16M**, large pattern **16L**, and extra large pattern **16XL**. Referencing **FIG. 7B**, left rear panel

18 may be correspondingly patterned from extra small pattern **18XS**, small pattern **18S**, medium pattern **18M**, large pattern **18L**, and extra large pattern **18XL**. These patterns may also be used to make the right front panel **20** and rear panel **22** of the main portion of the pants. Referencing **FIG. 7C**, a correspondingly sized waistband **12** may be patterned from extra small pattern **12XS**, small pattern **12S**, medium pattern **12M**, large pattern **12L**, and extra large pattern **12XL**.

[0024] The patterns for the main portion **14** of the pants **10** are sized so that said fabric of the panels patterned therefrom will be perpetually in a stretched condition about the buttocks, thighs, and legs of the wearer **30**. Similarly, the patterns for the waistband are sized so that the waistband will be perpetually in a stretched condition about the waist of the wearer.

[0025] The perpetual compressive force of the waistband applied over the wide width of the waistband has a slimming effect on the wearer and also provides a perpetual uplifting force on the pants so that they do not slide down in use, such as when the wearer bends over.

[0026] With the fabric of the panels of the main portion of the pants knitted from a yarn having about 70% rayon, about 27% nylon and about 3% spandex, the main portion of the pants stretch from a relaxed condition when worn to provide a compressive, slimming, force about the buttocks, thighs and legs of the user. Moreover, the elasticity of the panels is such that if a wearer bends over, the main portion of the pants do not ride up on the legs or into the crotch or intergluttal cleft of the wearer. Furthermore, when the pants are removed, the main portion of the pants will recover to their original relaxed condition, despite the fact that the panels of the main portion of the pants are knitted.

[0027] **FIG. 8** shows a second embodiment of pants. Turning to **FIG. 8**, pants **100** are similar to pants **10** – and like reference numerals have been given to like parts – except that pants **100** are culottes such that the legs of the pants end just below the

knee of a wearer. Further, the front panels of the main portions of the pants are stitched together from two panel halves. Thus, left front panel **116** has panel halves **116A**, **116B** and right front panel **120** has panel halves **120A**, **120B**.

[0028] Turning to **FIG. 9A** along with **FIG. 8**, left front panel half **116A** may be patterned from extra small pattern **116AXS**, small pattern **116AS**, medium pattern **116AM**, large pattern **116AL**, and extra large pattern **116AXL**. Left front panel half **116B** may be correspondingly patterned from extra small pattern **116BXS**, small pattern **116BS**, medium pattern **116BM**, large pattern **116BL**, and extra large pattern **116BXL**. Referencing **FIG. 9B**, left rear panel **118** may be correspondingly patterned from extra small pattern **118XS**, small pattern **118S**, medium pattern **118M**, large pattern **118L**, and extra large pattern **118XL**. Referencing **FIG. 9C**, the pattern for the waistband **12** may be correspondingly chosen from extra small pattern **12XS**, small pattern **12S**, medium pattern **12M**, large pattern **12L**, and extra large pattern **12XL**.

[0029] Pants **100** are made of identical materials to the pants **10** of **FIGs. 1 to 6**. Thus, similarly to pants **10** of **FIGs. 1 to 6**, pants **100** of **FIG. 8**, when worn, stretch over the buttocks and thighs of a user and the waistband is perpetually in compression such that the pants have a slimming effect on the wearer. Further, the pants stay in place during use, such as when the user bends over or sits down.

[0030] Other modifications will be apparent to those skilled in the art and, therefore, the invention is defined in the claims.

WHAT IS CLAIMED IS:

1. A pair of pants comprising:
an elastic waistband comprising an elastic material of polyester and rubber;
a main pants portion extending from said waistband;
said main pants portion knitted from a yarn comprising rayon, nylon and spandex.
2. The pants of claim 1 wherein said waistband is woven.
3. The pants of claim 2 wherein said elastic material is of said waistband is elastic threads.
4. The pants of claim 3 wherein said waistband is woven with a weft of first yarn threads, said first yarn threads extending in a transverse direction along said waistband and a warp of alternating ones of said elastic threads and second yarn threads, said elastic threads and said second yarn threads extending in a longitudinal direction along said waistband.
5. The pants of claim 4 wherein said elastic threads and said second yarn threads are arranged into an alternating first pattern and second pattern, said first pattern having at least two of said elastic threads and a like number of said second yarn threads and said second pattern having at least two of said elastic threads and a like number of said second yarn threads and wherein said elastic threads in said first pattern loop over a given first yarn thread of said first yarn threads and said elastic threads in said second pattern loop under said given first yarn thread.

6. The pants of claim 4 wherein said waistband extends above said main pants portion and wherein a bottom margin of said waistband is joined to said main pants portion.

7. The pants of claim 6 wherein a bottom margin of said waistband is coverstitched to said main pants portion.

8. The pants of claim 7 wherein said waistband has a minimum width of at least about 3.5" (9 cm).

9. The pants of claim 1 wherein said elastic material of said waistband has a uniform width of at least about 3.5" (9 cm).

10. The pants of claim 8 wherein said main portion of said pants is sized so that said fabric is perpetually in a stretched condition about the buttocks and thighs of a wearer.

11. The pants of claim 10 wherein said fabric is a about a 24 gauge fabric.

12. The pants of claim 11 wherein said waistband is sized so that it is perpetually in a stretched condition about the waist of said wearer.

13. The pants of claim 1 wherein said yarn comprises about 70% rayon, about 27% nylon and about 3% spandex.

14. The pants of claim 1 wherein said elastic waistband comprises about 65% polyester and about 35% rubber.

15. The pants of claim 14 wherein said elastic waistband comprises about 65% polyester and about 35% rubber.

16. A pair of pants comprising:
 - an elastic waistband;
 - a main pants portion extending from said waistband;
 - said main pants portion knitted from a yarn which is about 70% rayon, about 27% nylon and about 3% spandex.

17. The pants of claim 16 wherein said waistband is woven with a weft of first yarn threads, said first yarn threads extending in a transverse direction along said waistband and a warp of alternating ones of said elastic threads and second yarn threads, said elastic threads and said second yarn threads extending in a longitudinal direction along said waistband.

18. The pants of claim 17 wherein a bottom margin of said waistband is coverstitched to said main pants portion.

19. The pants of claim 18 wherein said elastic material of said waistband has a uniform width of at least about 3.5" (9 cm).

20. The pants of claim 19 wherein said elastic waistband comprises about 65% polyester and about 35% rubber.

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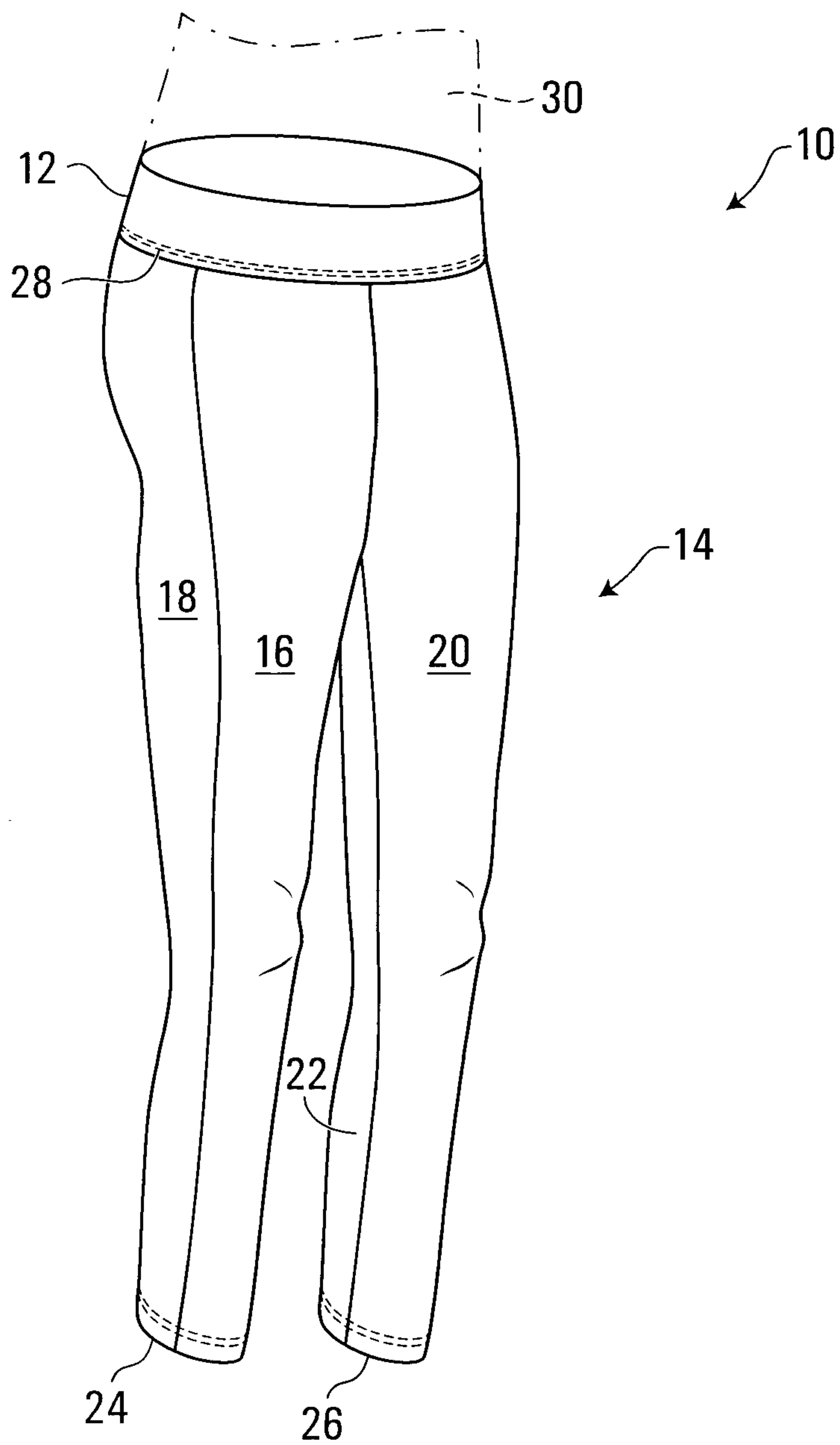


FIG. 1

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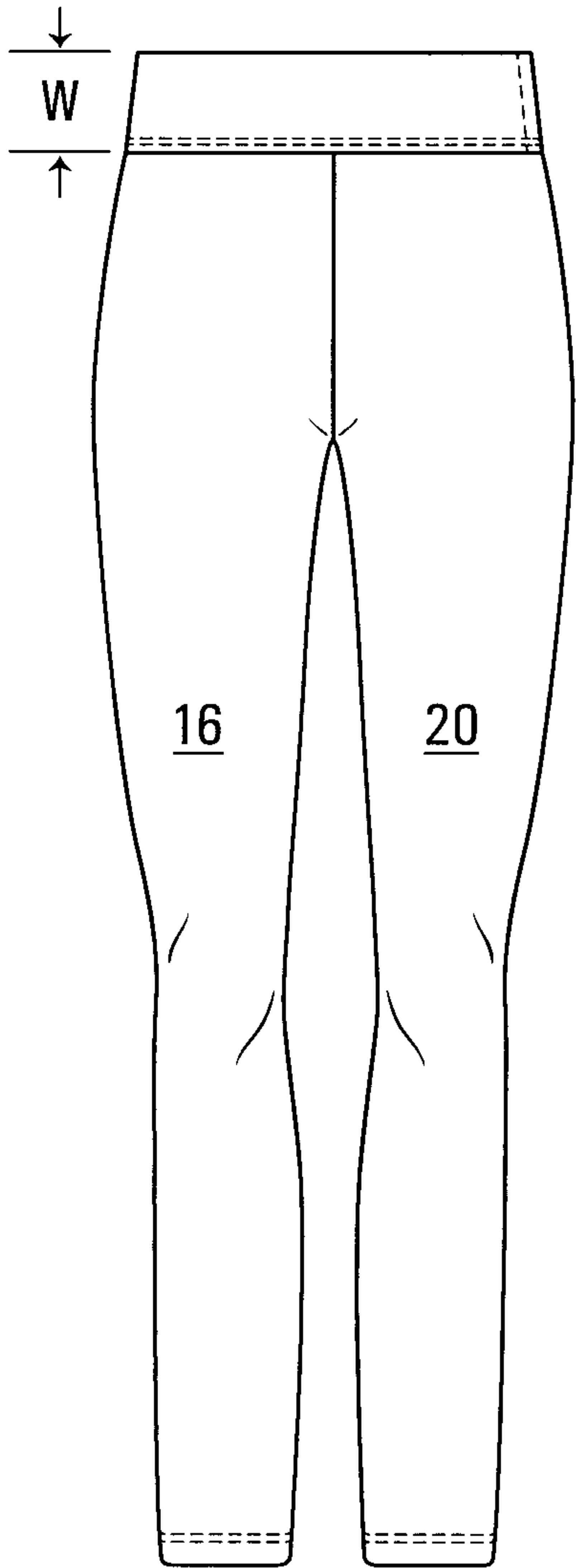


FIG. 2

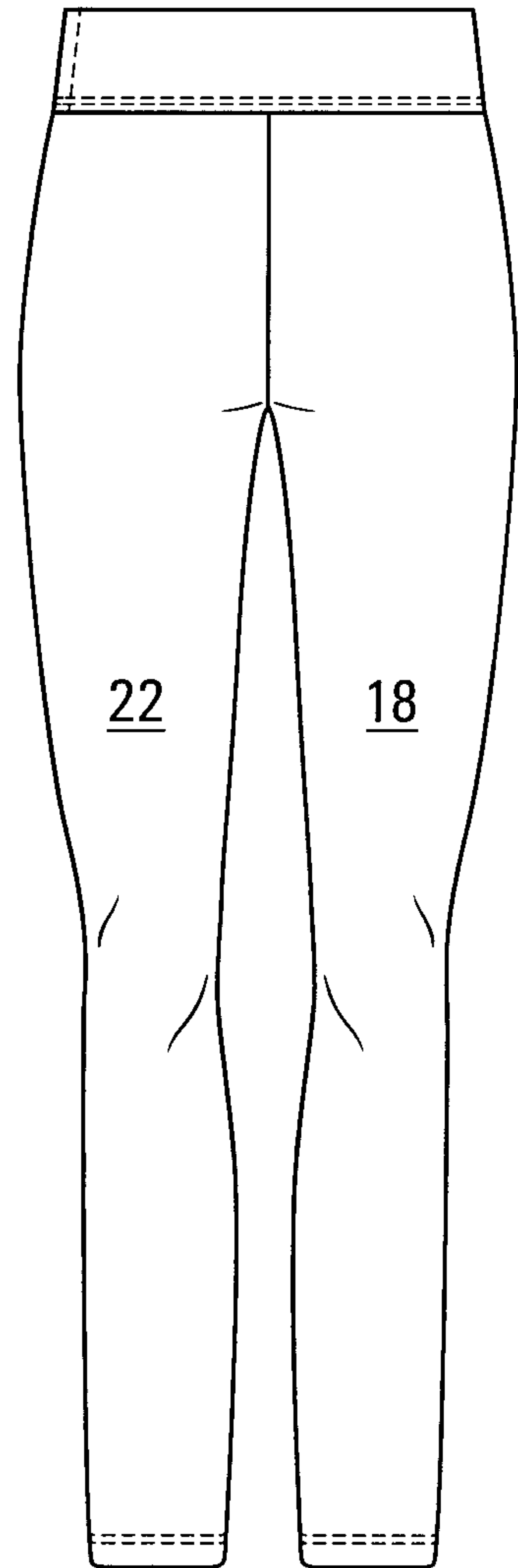


FIG. 3

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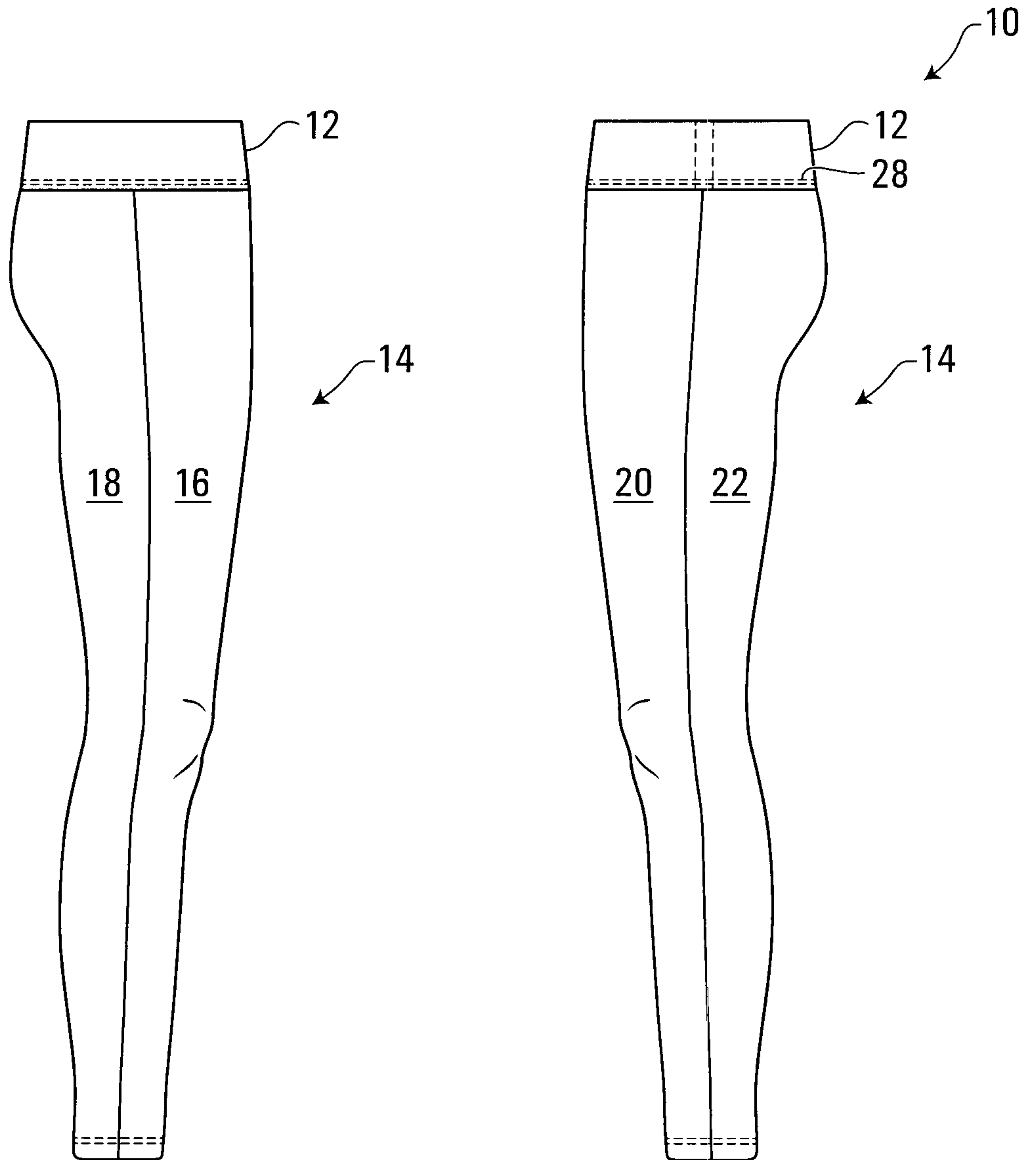


FIG. 4

FIG. 5

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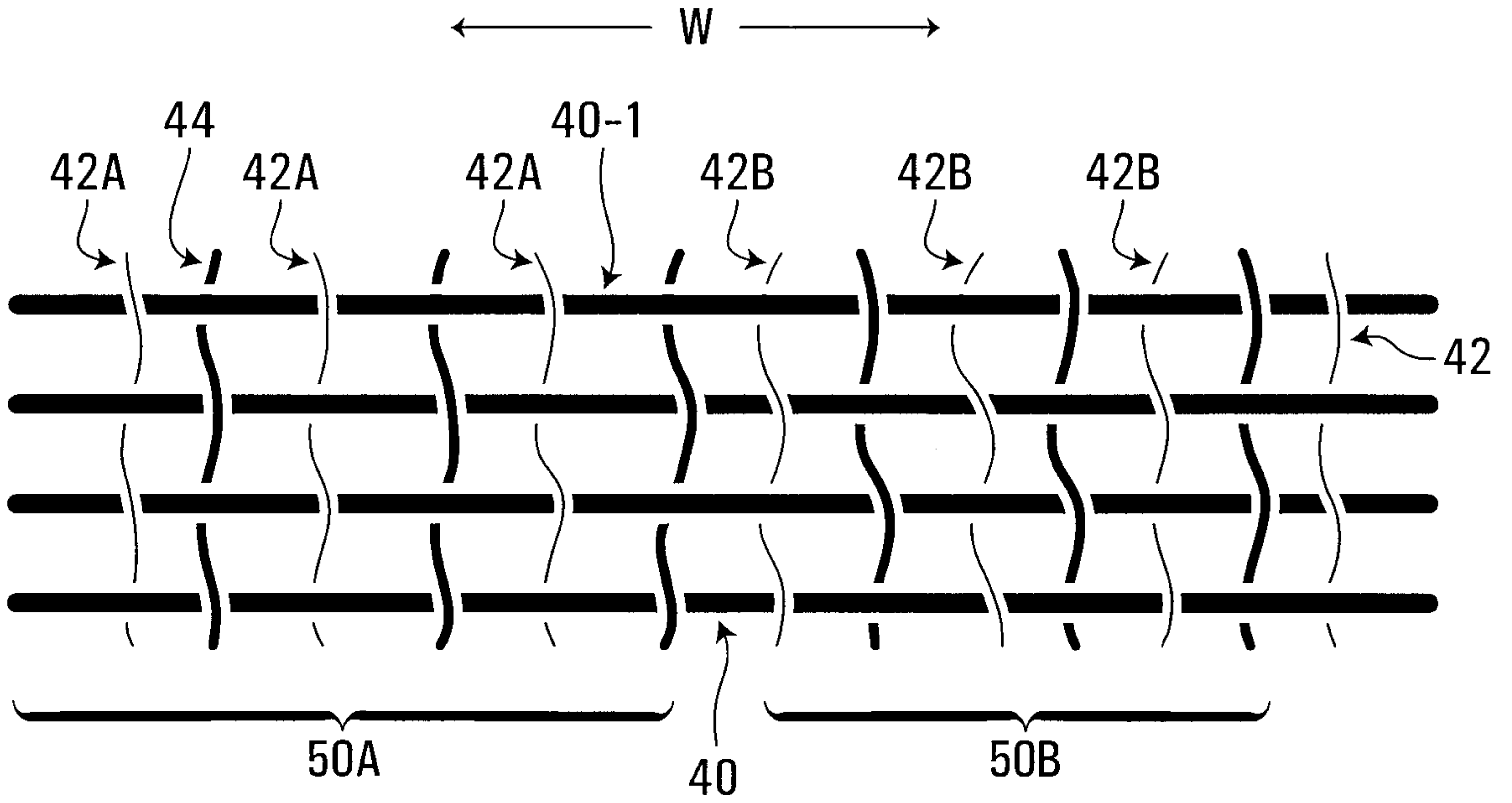


FIG. 6

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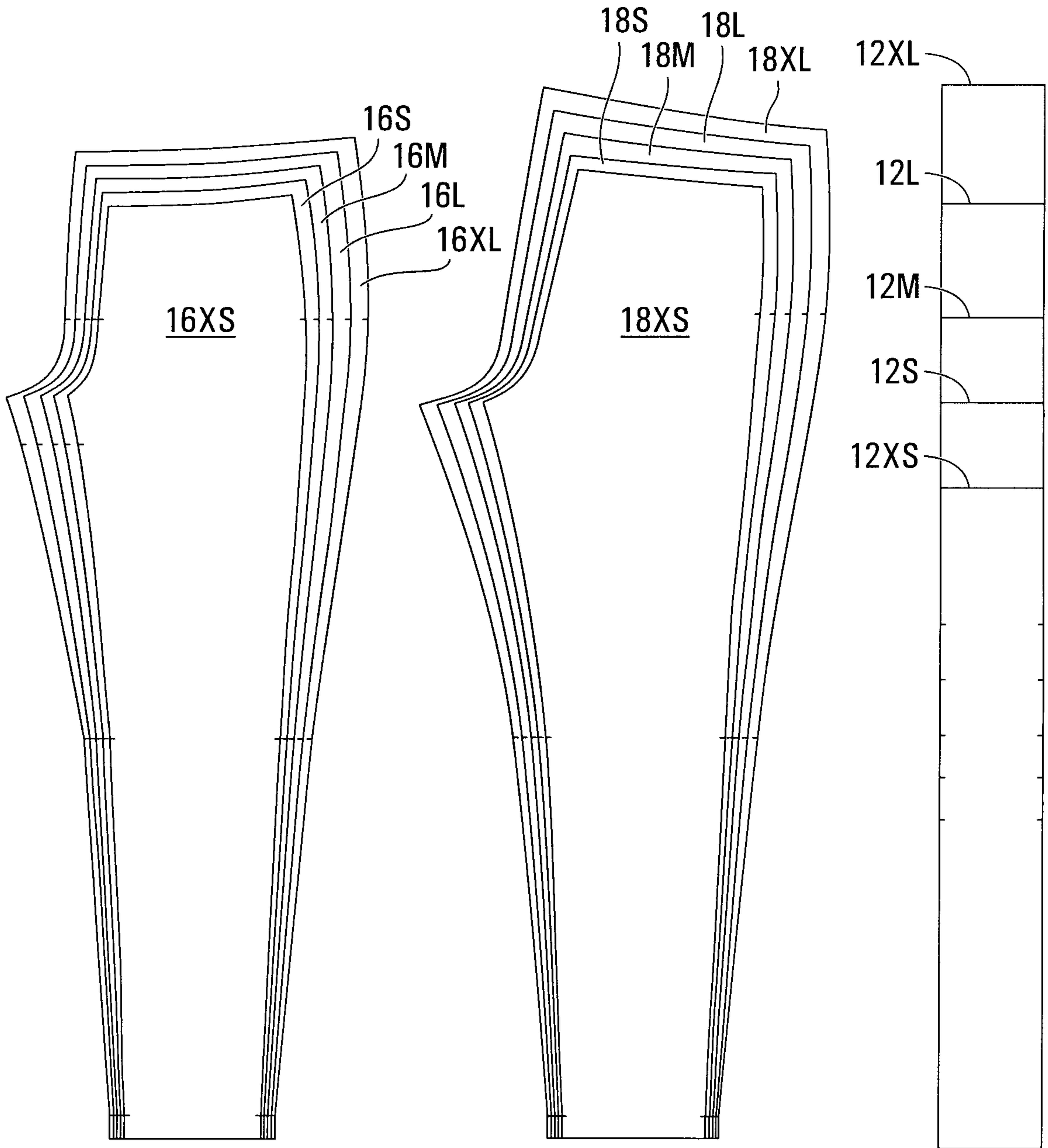


FIG. 7A

FIG. 7B

FIG. 7C

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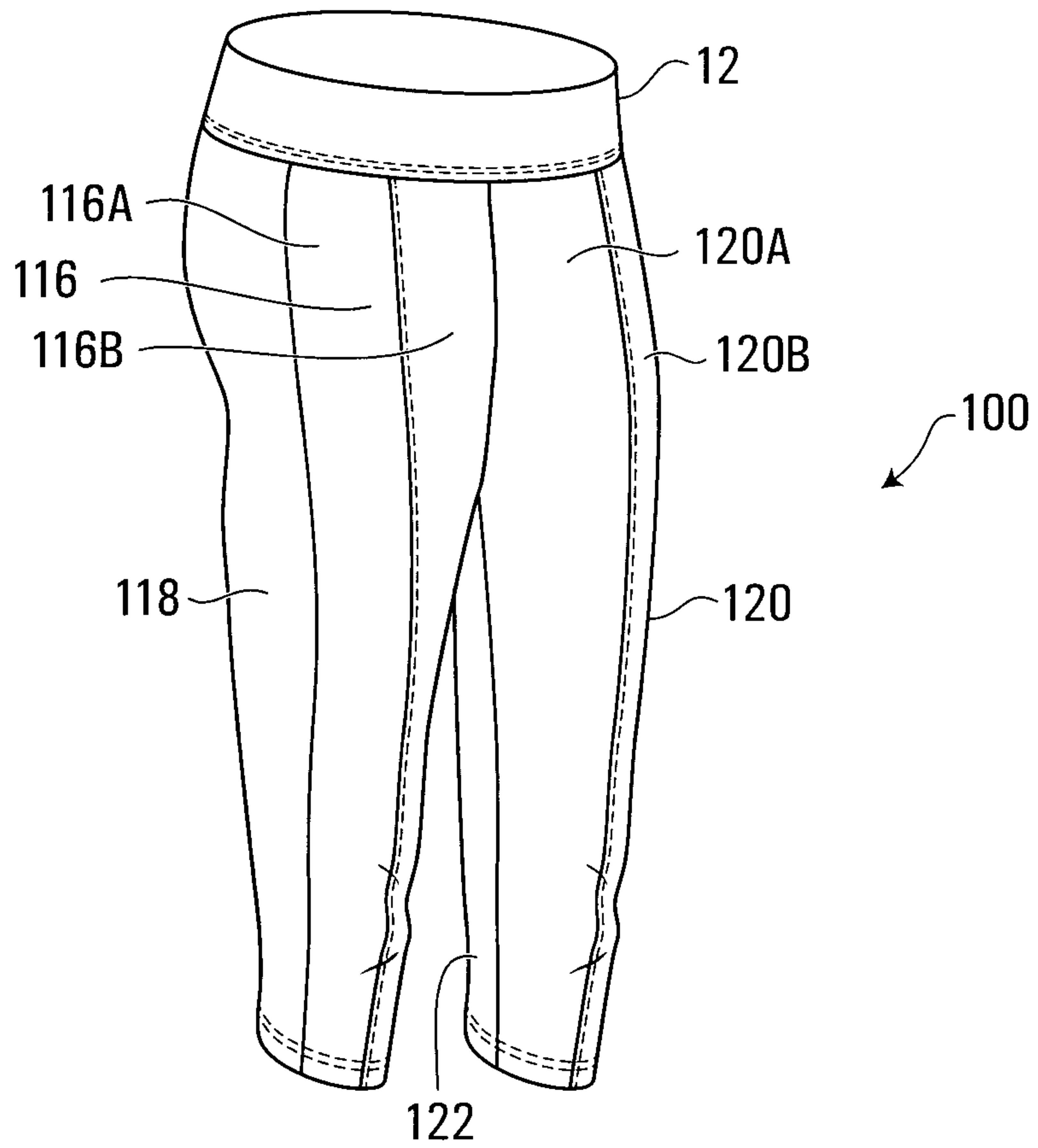


FIG. 8

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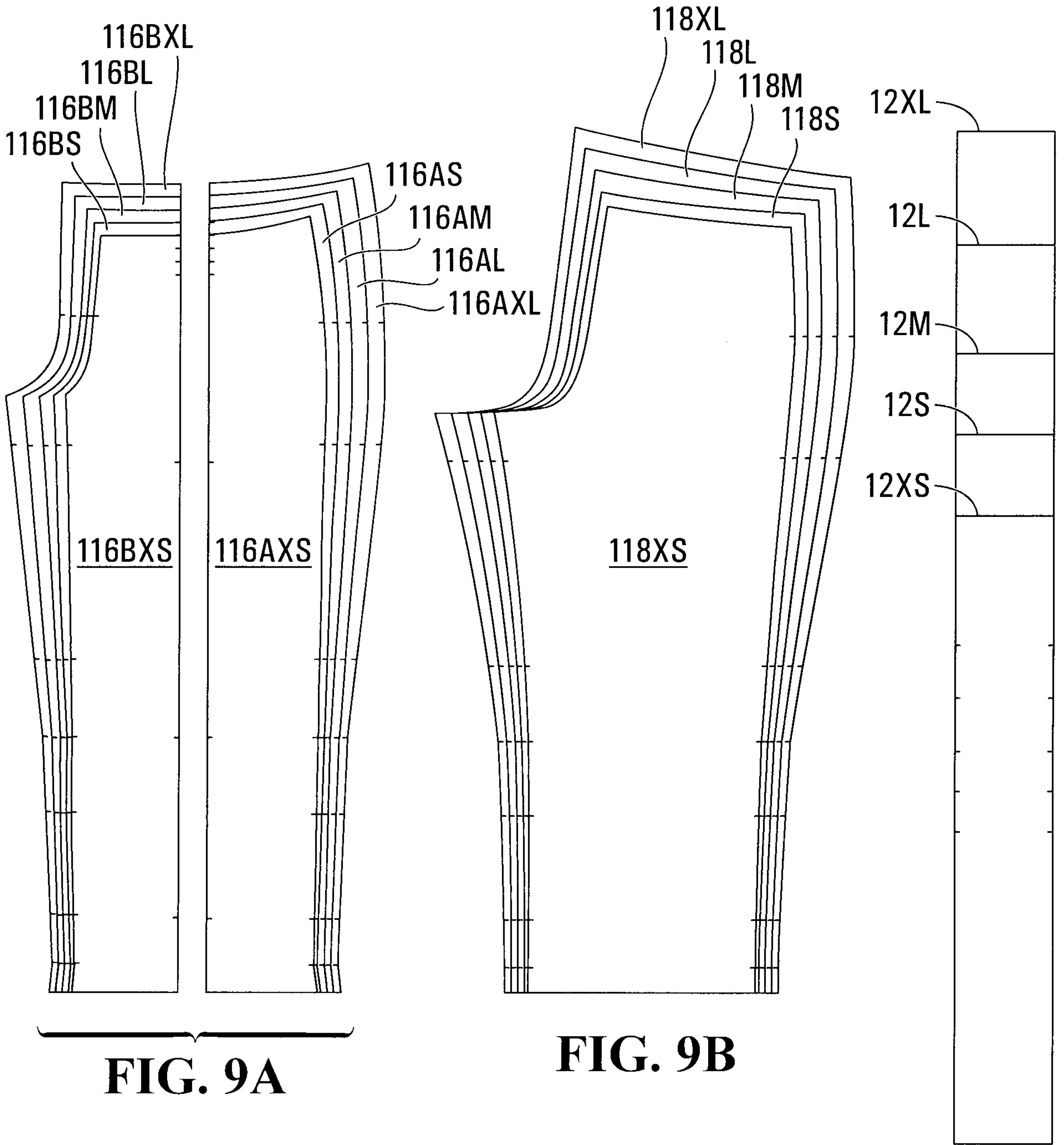


FIG. 9A

FIG. 9B

FIG. 9C

