L. F. DOTY.

UNDERGARMENT.

APPLICATION FILED NOV. 14, 1918.

1,391,618.

Patented Sept. 20, 1921.

2 SHEETS—SHEET 1.

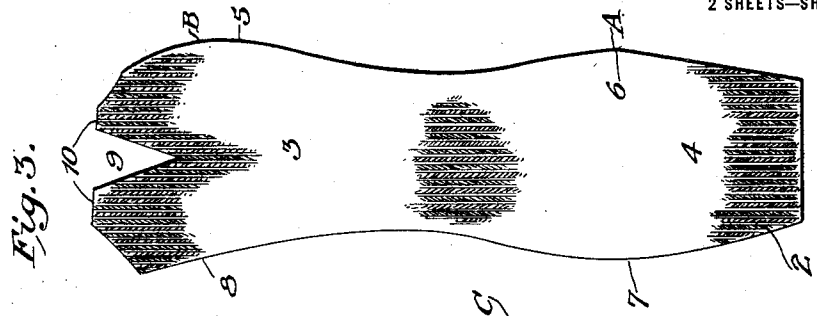


Fig. 3.

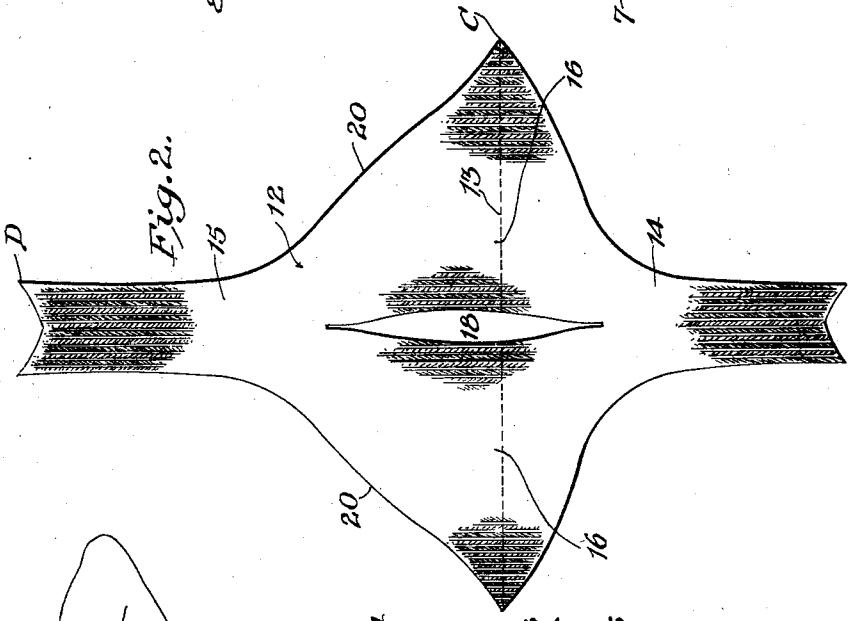


Fig. 2.

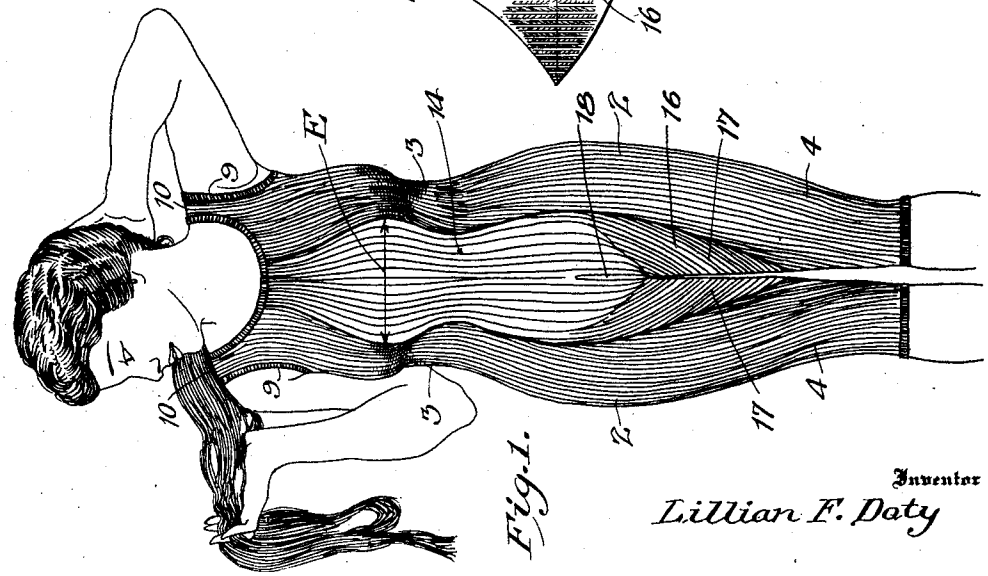


Fig. 1.

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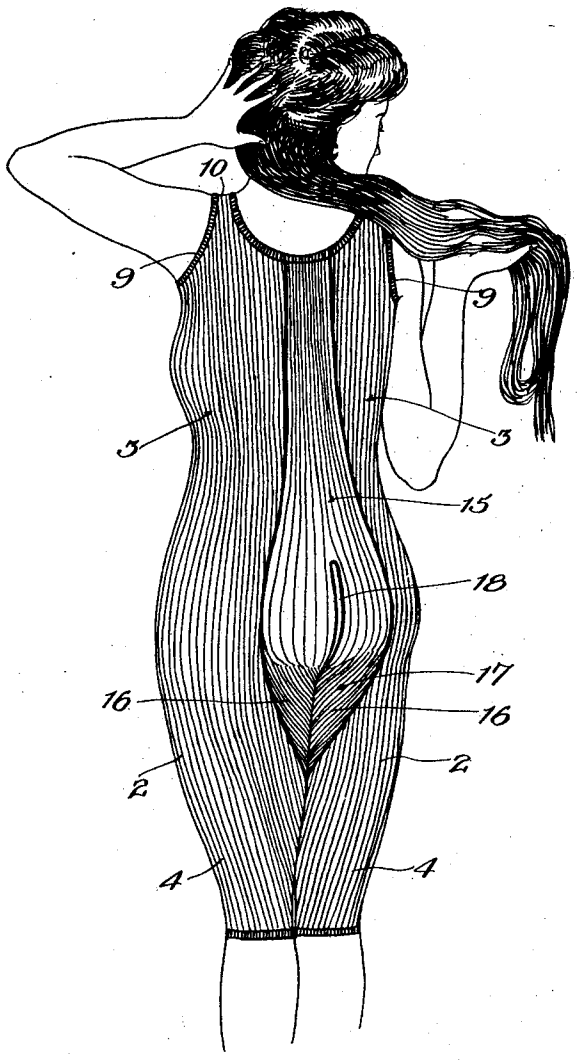
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2 SHEETS—SHEET 2.

Fig. 4.



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UNITED STATES PATENT OFFICE.

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UNDERGARMENT.

1,391,618. Specification of Letters Patent. Patented Sept. 20, 1921.

Application filed November 14, 1918. Serial No. 262,572.

To all whom it may concern:

Be it known that I, LILLIAN FRANCES DOTY, a citizen of the United States, residing at La Grange, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Undergarments; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to garments and particularly to under garments of the union type.

An object of the invention is to provide a garment of knitted or other material, involving simplicity of construction without gussets, over lapping flaps or buttons; also to provide a garment cut on perpendicular form-fitting lines not depending on stretch of material but which is so formed as to fit the curves and lines of body with ease and comfort. One important feature of the present invention is the cut of the crotch, central back and central front of body part in one piece thereby eliminating transverse cutting of material as in knitted fabric making smooth even seams difficult. The crotch, central front and central back of body part being cut in one piece throws weave of material transversely to that of the body portion where more elasticity is needed in bending of body.

Another object is to provide a garment complete in three sections and with few seams; and to provide a garment with an open crotch without flaps and yet has appearance of a closed crotch when on the body; to provide a garment that covers the body completely without spreading or binding at any point; and to provide a garment cut to fit without depending on the stretch of the material.

For the accomplishment of these and other objects of the invention as will be set forth in the following specification the invention consists of the construction, the combination, and in details and arrangements of the parts as more particularly described hereinafter relative to the embodiment of the invention illustrated in the accompanying drawing in which,

Figure 1 is a front view of the garment as applied to the human form.

Fig. 2 is a plan view of the crotch, back and front forming gore.

Fig. 3 is a plan view of a side gore.

Fig. 4 is a rear view of the garment.

The garment is constructed of right and of left hand side gores, one of which is illustrated in Fig. 3 at 2, this gore having an upper body-forming portion 3 and a lower limb-forming portion 4. The edge of this gore passing to the front of the form or lying in the front portion of the completed garment is shown as outwardly curved as at 5 to give the desired fullness of the garment at the bust while the lower portion is shown as outwardly curved along each of its edges at 6 and 7 to give the fullness around the hips. The upper and rear or back forming portion of the body part 3 of the gore 2 is shown as cut on a concave line 8. The upper end of the side gore 2 is shown as provided with a V shaped notch 9 forming an arm hole when the end edges 10 of the gore are stitched together.

There is shown in Fig. 2 a plan view of a gore piece 12 which is substantially cruciform in outline and which when folded on the dotted line 13 transverse to the length of the gore forms a front part 14 and a back part 15 while the wings at 16—16 when stitched to contiguous portions 4 of the side gores 2 form the crotch or insides of the legs or limbs of the garment as at 17 Fig. 1. The crotch part is slit at 18. The portions 20 are formed or fulled out to provide width for the hips and back. To complete the garment one edge of the front portion 14 of the gore 12 is stitched to the adjacent side gore 2 from a point approximately indicated at A Fig. 3 up to the neck line B while the rear-forming portion 15 of the gore 12 is stitched between the points C and D along the adjacent portion of the side gore at the rear edge of the latter so that the entire garment is completely formed by the stitching together of the two side gores which are substantially oblong in form to the central gore 12.

One of the important features of the present invention resides in the cutting of the gores from knitted fabric and as clearly shown in Fig. 2 the ribbing of the knitted fabric extends longitudinally of the central gore so that the latter has a very considerable degree of elasticity transversely of its length with the result that when the garment is applied the ribbing will be laterally expanded as indicated at the line marked E in Fig. 1 around the bust and thus give the de-

sired fullness and produce a perfect fitting garment without unduly binding upon the parts of the figure, the parts being so cut as to be full enough to fit without undue stretching of the material. The sides of the cruciform gore 12 are shown as substantially in the form of a triangle having its base on a line with the sides of the piece as indicated in the portions 16—16 and when these parts are stitched to the respective edges of the side gores 2 the ribbing in the portions of 16 is disposed obliquely around the hips and between the thighs so that the inherent elasticity of the ribs of this material eliminates the straining of the garment and the binding thereof about the figure by readily stretching to conform to the enlargement in the girth of the form.

It will be seen from the above that I have provided an extremely simple garment of a minimum number of pieces which are cut in a peculiar manner of knitted or other fabric so that when the parts are stitched together the desired elasticity or stretching of the garment over the larger portions of the anatomy is readily secured to permit the bending movements.

From the foregoing it will be seen that I have provided a garment which is formed to fit the curves and lines of the body with ease and comfort and in which the pieces are connected together with seams on perpendicular lines or that is lines running parallel to the length of the garment and following the natural lines and curves of the body. It involves no cross cutting and stitching and therefore eliminates the usual tendency of the garment to pucker at the seams extending transversely and which prevent the smooth fitting of the garment. Cutting and connecting the parts as herein disclosed produces a garment which fits without unnecessary strain being imposed upon the material and which eliminates an unnecessary degree of fullness around the waist line.

What I claim is:

1. A nether garment made of knitted transversely elastic fabric and in which the fabric is so disposed as to be expansible transversely or laterally to provide increment in girth at the bust and around the abdomen, the garment being formed of symmetrical side gores each formed of a single piece and having a body and a leg area and a central gore substantially cruciform in outline extended from the thigh up the front and the back to the neck, said central gore being extended down to form the inside portions of the legs of the side gores.

2. A bifurcated union garment including symmetrical side gores each formed of a single piece of material and having a body and a leg area and a one piece central gore secured at its longitudinal edges to the respective edges of the side gores, said central gore being of a substantially cruciform shaped piece and forming a portion of the back and front of the garment.

3. A bifurcated union garment including symmetrical side gores each formed of a single piece of material and having a body and a leg area, a one piece central gore secured at its longitudinal edges to the respective edges of the side gores, said central gore being of a generally cruciform shaped piece and forming a portion of the back and front of the garment by extending from the thigh up the front and back to the neck.

In testimony whereof I affix my signature.

LILLIAN FRANCES DOTY.