July 10, 1951 D. SEIDNER 2,560,192

SWIMMING TRUNKS

Filed Feb. 11, 1948

Fig. 1

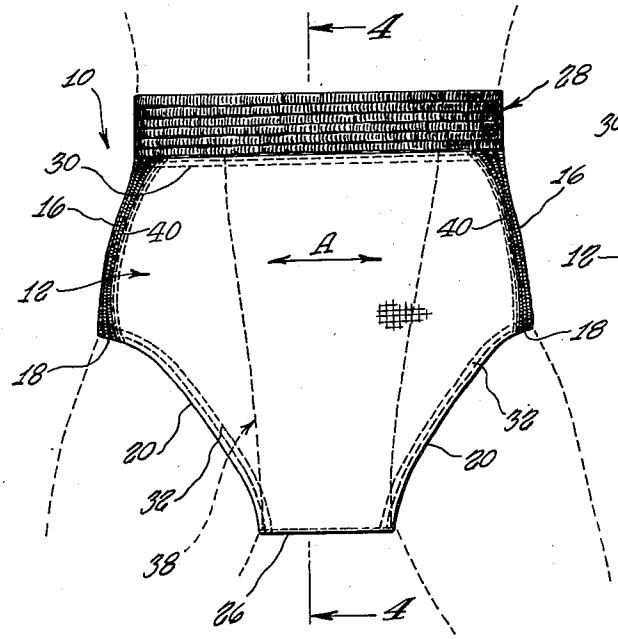


Fig. 3

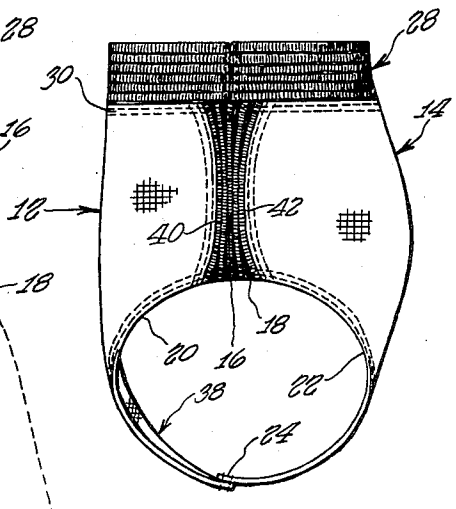


Fig. 2

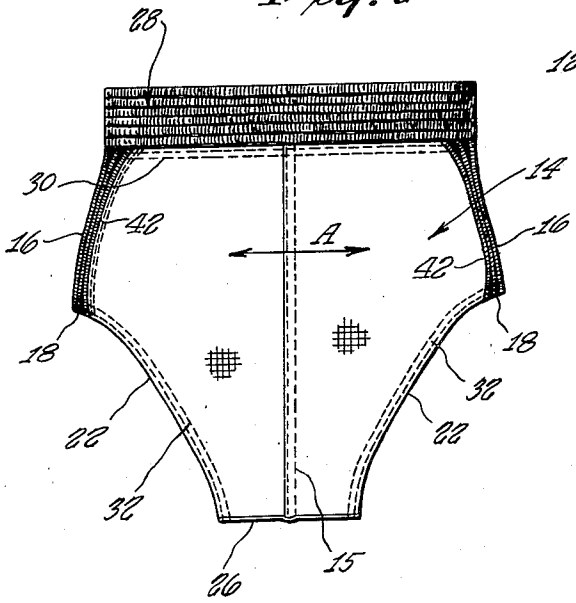
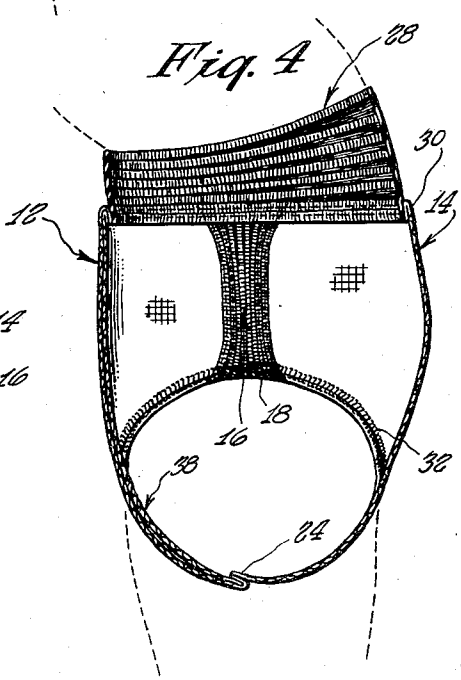


Fig. 4



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SWIMMING TRUNKS

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3 Claims. (Cl. 2—67)

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This invention relates to swimming trunks.

The primary object of the present invention is the provision of a trunk-type garment which fits well and comfortably on the wearer. More particularly it is an object of the present invention to provide swimming trunks which fit the wearer smoothly and snugly without binding.

The above and other objects, features and advantages of this invention will be fully understood from the following description considered in connection with the accompanying illustrative drawings.

In the drawings:

Fig. 1 is a front view of swimming trunks embodying the present invention, as they appear when on the wearer;

Fig. 2 is a view of the back thereof;

Fig. 3 is a side view thereof;

Fig. 4 is a sectional view on the line 4—4 of Fig. 1.

Referring now more particularly to the accompanying drawings, the swimming trunks 10 embodying the present invention comprise the front and rear panels, 12 and 14, formed of elastic fabric such, as for example, satin lastex which is stretchable laterally of the wearer as indicated by the arrows A but which is preferably inelastic and non-stretchable longitudinally of the wearer. The back panel is formed in two sections stitched together by the central vertical seam 15. Said panels extend laterally of the garment to points near the opposite sides of the wearer but the side edges of the front panel are spaced from the adjacent side edges, respectively, of the back panel and elastic side inserts 16 are disposed in the garment between said front and rear panels. These inserts extend longitudinally of the garment and have lower end portions 18 which, together with the end portions 20 and 22 of panels 12 and 14, respectively, define the leg openings of the garment. The lower central portions of panels 12 and 14 are stitched together by the seam 24, forming the closed crotch part 26 of the garment. Said panels and inserts 16 form the body portion of the garment. The garment is provided with an elastic waist band 28 which is preferably peripherally continuous, and the upper ends of panels 12 and 14 and of the inserts 16 are secured to the lower edge of said waist band by the elastic seam 30 which is peripherally continuous. The leg-opening defining parts of the panels and of the inserts 16 have their edges folded inwardly or hemmed and stitched in position by the elastic stitching 32. The swimming trunks are preferably provided with an inner supporter 38 confronting the inner surface of the front panel 12 and stitched at its lower and upper edges to the front panel by the seams 24 and 30, respectively, and along portions of the leg openings by the stitching 32 which secures the inturned edge portions of the front panel 12. It will be understood that only the lower edge portions of the supporter 38 are secured to panel 12 and that except for this securement and the securement of the lower and upper edges of said supporter the latter is free from direct securement in the garment.

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The waist band 28 is formed of elastic fabric which is of such construction that said band has an easier stretch laterally of the band, that is longitudinally of the garment, than longitudinally of the band, that is laterally or circumferentially of the garment. For this purpose band 28 is preferably made of rib knitted material having rubber strands or threads extending longitudinally of the ribs and having thinner and more easily stretchable rubber strands or threads in the portions of the fabric located between the ribs. Accordingly, the band 28 exerts the proper tension around the wearer to hold the trunk in position, and at the same time the band can stretch longitudinally of the wearer so as to eliminate excessive upward pull on the garment and binding at the crotch which might otherwise occur.

The elastic inserts 16 are preferably formed of the same material as the band 28, but it will be noted that these inserts are positioned in the trunks in such manner that the direction of easier stretch is laterally of the garment. More specifically, it will be observed that the elastic pieces or inserts 16 are positioned so that the ribs thereof extend longitudinally of the garment instead of laterally thereof with the result that, as stated, the direction of easier stretch of these inserts is laterally of the garment. Thus the edge portions of the garment at the leg openings are resiliently stretchable peripherally of said leg openings respectively so as to snugly fit around the wearer's thighs without binding. In this connection it will be understood that the panels 12 and 14 which are preferably inelastic and non-stretchable longitudinally of the wearer nevertheless have a degree of elasticity at parts of the edge portions at the leg openings, because of the cutting of the material on the bias in forming the leg-opening defining portions of said panel. However, since parts of these last-mentioned portions of the panels, particularly those portions adjacent the crotch 26, are cut substantially along the straight of the goods or at a small angle

thereto, said portions near the crotch have little or no elasticity, and the remaining edge portions of said panels at the leg openings are not sufficiently elastic to compensate for the lack of adequate elasticity in the aforementioned edge portions of the panel at the leg openings. This objection is obviated by the inserts 16, and at the same time the relation between the inserts and the adjacent parts of panels 12 and 14 longitudinally of said inserts is such as to enable the parts of the garment which are constituted by these inserts and by the adjacent longitudinally extending parts of the panel to stretch longitudinally of the garment at the hips of the wearer. In this connection it will be observed that the side edges 40 of panel 12, above the leg openings, and the corresponding side edges 42 of panel 14 are arcuate or bowed to converge upwardly toward band 28, the adjacent side edges of said panels being curved in opposite directions, and that in cutting these panels to provide these upwardly converging side edges, the lines of cut are at an angle to the straight of the goods with the result that the upper longitudinal edge portions of the panels adjacent the inserts 16 are elastic longitudinally of the garment and are resiliently stretchable with the elastic inserts 16 longitudinally of said inserts.

It will be noted, as shown in Fig. 3, that, when the trunks are on the wearer, the upper edge portion of each insert 16, adjacent the waist band 28, is in partially stretched condition. Similarly, when the trunks are on the wearer, the lower edge portion of each insert 16, at the seam 32, is in partially stretched condition. The partially stretched upper edge portions of inserts 16 obviate an abrupt decrease in elasticity in the region of the upper part of the garment near the waist band without interfering with the desired degree of stretchability of the inserts laterally of the garment in the region of the wearer's hips. The partially stretched lower edge portions of the inserts provide for the proper degree of elasticity of the garment at the leg openings without impairing the greater stretchability required in the garment at the hips of the wearer. It will be observed that these results are accomplished without requiring cutting the inserts 16 for the purpose of narrowing or widening the latter along the length thereof, and conversely it will be observed that the inserts 16 may be formed of pieces of fabric which are of uniform width.

It will be understood that various changes in the details of construction may be made without departing from the underlying idea or principles of this invention within the scope of the appended claims.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:

1. A trunk type garment, comprising front and back panels which are resiliently stretchable laterally of the garment and non-stretchable longitudinally of the garment, and elastic side inserts disposed between said front and back panels and secured to the adjacent side edges, respectively, of said panels, said side inserts being resiliently stretchable longitudinally of the garment and laterally thereof and being more easily stretchable laterally of the garment than longitudinally thereof, the lower ends of said inserts and adjacent lower ends of said panels, respectively, defining the leg openings of the garment, said adjacent side edges of the panels above the leg openings being bowed away from each other whereby the edge portions of said panels adjacent said side edges, respectively, are yieldingly stretchable longitudinally of the garment with the adjacent side inserts, respectively.

2. A trunk type garment, comprising front and back panels which are resiliently stretchable laterally of the garment and non-stretchable longitudinally of the garment, and elastic side inserts disposed between said front and back panels and secured to the adjacent side edges, respectively, of said panels, said side inserts being resiliently stretchable longitudinally of the garment and laterally thereof and being more easily stretchable laterally of the garment than longitudinally thereof, the lower ends of said inserts and adjacent lower ends of said panels, respectively, defining the leg openings of the garment, said adjacent side edges of the panels above the leg openings being bowed away from each other whereby the edge portions of said panels adjacent said side edges, respectively, are yieldably stretchable longitudinally of the garment with the adjacent side inserts, respectively, and an elastic waist band secured to the upper edges of said panels and said inserts, said waist band being resiliently stretchable circumferentially of the garment and longitudinally thereof and being more easily stretchable longitudinally of the garment than circumferentially thereof.

3. A trunk type garment, comprising front and back panels which are resiliently stretchable laterally of the garment and non-stretchable longitudinally of the garment, said panels having arcuate side edges, and elastic side inserts disposed between said front and back panels and secured to the adjacent side edges, respectively, of said panels, said side inserts being resiliently stretchable longitudinally of the garment and laterally thereof and being more easily stretchable laterally of the garment than longitudinally thereof, the lower ends of said inserts and adjacent lower ends of said panels, respectively, defining the leg openings of the garment, said adjacent side edges of the panels above the leg openings being curved in opposite directions whereby the edge portions of said panels adjacent said side edges, respectively, are yieldingly stretchable longitudinally of the garment with the adjacent side inserts, respectively, and an elastic waist band secured to the upper edges of said panels and said inserts, said side inserts being in partially stretched condition in the portions thereof adjacent said band when the garment is on the wearer's body, the portions of said inserts below said first-mentioned portions being normally in non-stretched condition.

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