

June 5, 1923.

1,458,082

J. STEIN

VENTILATED SANITARY GARMENT

Filed Dec. 12, 1922

Fig. 1.

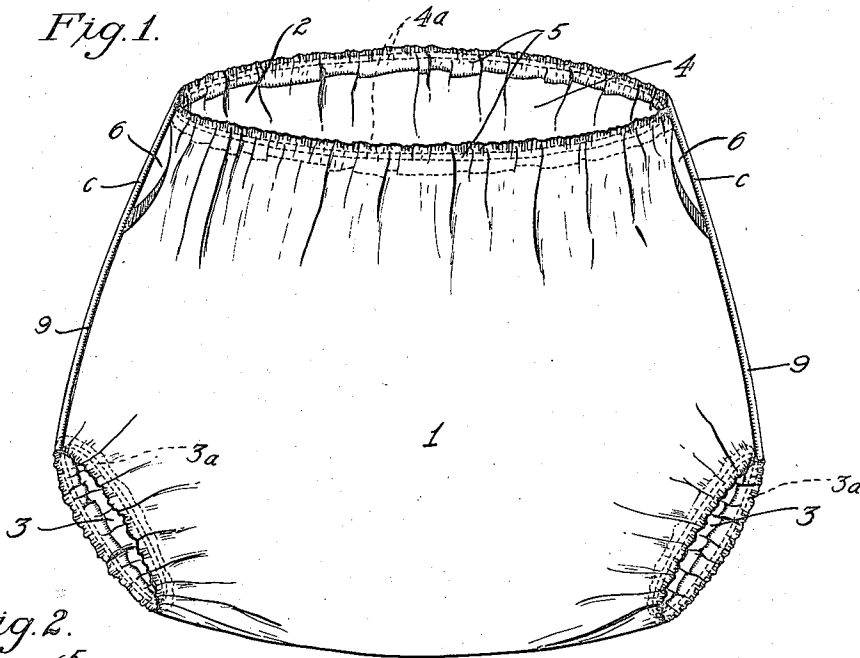


Fig. 2.

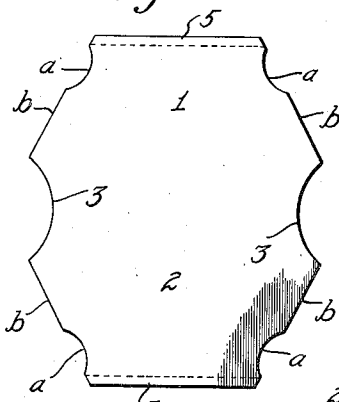


Fig. 3.

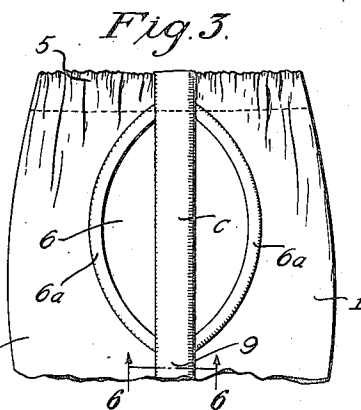


Fig. 4.

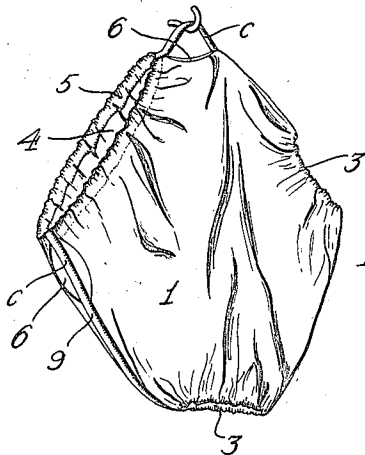
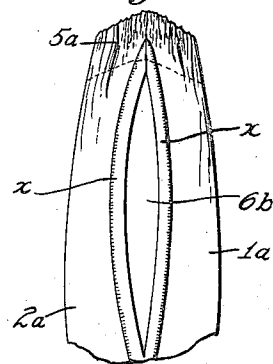


Fig. 5.

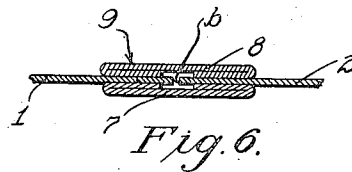


Fig. 6.

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UNITED STATES PATENT OFFICE.

JACOB STEIN, OF NEW YORK, N. Y.

VENTILATED SANITARY GARMENT.

Application filed December 12, 1922. Serial No. 606,456.

To all whom it may concern:

Be it known that I, JACOB STEIN, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a new and useful Ventilated Sanitary Garment, of which the following is a specification.

The present invention relates to improvements in garment protectors of the trunk type made of water-proof material and worn by infants, small children, and women for purposes well known. This type of garment is commonly known in the trade as "all rubber pants" and are made of rubberized cloth or rubber sheeting to form a full, bag-like trunk garment having waist and leg openings, with means about the openings for contracting them about the body and legs of the wearer.

This type of garment while fully effective to prevent egress of moisture therefrom, by reason of its close contact about the waist and legs of the wearer, is objectionable by excluding air from those parts of the body covered by the garment, because of the garment being otherwise closed than at its waist and leg openings, thus resulting in a rather uncomfortable and unhealthy condition as will be readily understood. This is especially true when garments of the type now commonly in use are worn in summer or in warm climates.

The object of this invention is to provide a garment of the above stated character which shall permit a circulation of air within the garment and the heat emanating from the body to pass out from within the garment, whereby the garment is effectively ventilated, while at the same time preventing the egress of moisture from the garment and losing none of the other advantages possessed by the garments now commonly in use.

Another object of the invention is to reinforce and strengthen the garment at its ventilated portions so as to take up all strain which will tend to rip or tear the garment at these points.

Another object of the invention is to provide a novel means for suspending the garment after being washed in order that it may drain effectively through an opening in the garment and thereby eliminate deterioration which will occur when the garment is not properly drained and dried.

The invention further resides in the de-

tailed construction of the garment and the arrangement of parts hereinafter more fully described and pointed out in the appended claims.

In this specification and the annexed drawings, the invention is disclosed in the form in which it is considered to be the best, but the invention is not limited to such form because it is capable of being embodied in other forms; and it is to be understood that in and by the claims following the description herein it is intended to cover the invention in whatever form it may embody within the scope thereof.

In the drawings which disclose the invention in the embodiment in which it is at present devised:

Figure 1 is a perspective view of the pants constructed in accordance with the invention.

Fig. 2 illustrates the blank from which the pants are made.

Fig. 3 is a fragmentary side view of the pants.

Fig. 4 is a view similar to Fig. 3, but illustrating the action of a garment, without reinforcing strips 9, under longitudinal strain or pull.

Fig. 5 is an elevation of the pants illustrating the manner in which they may be suspended after washing, for the purpose of draining and drying the interior of the garment, and

Fig. 6 is a fragmentary cross-sectional view taken substantially on line 6—6 of Fig. 3.

Referring in detail to the drawings, 1 indicates the front face of the garment and 2 indicates the rear face of the garment. These sections of the garment are ordinarily and preferably made from sheet rubber, or if desired, rubberized material, and are closed at the crotch and side edges to produce the waist and leg openings 3 and 4, respectively. These openings 3 and 4 are provided with suitable means, such as elastic bands 3^a and 4^a, to contract the same about the waist and legs of the wearer for purposes well understood. It is to be understood, however, that any form of closure means may be used in lieu of the elastic bands 3^a and 4^a.

The present invention resides in notching or cutting away the side edges of the front and back sections 1 and 2 at points adjacent the waist band portion thereof, as indicated

at a so that when the sections 1 and 2 are assembled a circular opening is formed in each side of the garment, as at 6, immediately below the waist band 5, the contiguous side edges b of the sections 1 and 2 being brought to abutting, or slightly overlapping relation, to form the side seams of the garment. These side seams are reinforced by strips 7 and 8 of rubber, rubberized or other suitable material, either elastic or non-elastic applied, respectively, on the inner face and outer faces of the garment, and overlapping the seams formed by the contiguous side edges of the sections 1 and 2, as shown in Figure 6. These strips 7 and 8 form reinforcing and strain sustaining straps, generally designated 9, at each side of the garment which extends from the waist band 5 thereof to the leg openings 3, each intersecting the openings 6, as clearly shown in the drawings and being vulcanized or otherwise suitably joined to the material of the garment as well as to the waist band and leg opening portions.

It will thus be seen that the reinforcing strips or straps 9, which extend longitudinally of the garment, aside from reinforcing the side seams, take up all longitudinal pull and strain on the garment between the waist band and the leg openings and relieve the body of the garment of this strain, thus reducing the liability of tearing or ripping which frequently occurs in all rubber baby pants at its side edges. Furthermore, the reinforcing strips 9 are so positioned, by intersecting the openings 6 to relieve the edges of the openings of all longitudinal pull and strain, thus reducing the liability of ripping or closing of the edges at these openings. To concretely illustrate this, reference should be had to Figure 4, wherein the garment therein shown is similar in all respects to the garment shown in the other views of the drawings, except that it is not provided with the reinforcing strips 9, and it will be seen therefrom that under longitudinal pull or strain the edges of the openings 6^a are subjected to strain and stress and are brought substantially together, thus closing the opening to such extent, practically destroying ventilation. The edges of the openings 6 may, however, be reinforced by folding the edges upon themselves, or by vulcanizing or otherwise affixing additional strips of rubber, rubberized or other material to the edges, as indicated at 6^a in Figure 3.

The portions c of the reinforcing strips 9 which intersect the openings 6 further serve to prevent the cloth diaper which is usually worn under the rubber pants, when worn by children, from protruding through the openings, causing a bulky appearance and discomfort. This would particularly occur if the pants are brought to fit snugly; and it

is desirable to have the openings of comparatively large size in order to permit the proper ventilation aimed at by this invention. The portions c of reinforcing strips 9 also cause the ventilating openings 6 to retain their proper shape, when the garment is being worn, and is under longitudinal strain, because without them the openings would almost close, as illustrated in Figure 4 and referred to above, resulting in the openings losing their ventilating qualities.

The portions c of the straps 9 intersecting the openings 6 also serve the purpose of suspending loops for hanging the garment up after being washed, thus eliminating other loops or means now usually provided on sanitary pants for this purpose. One of the most potent causes of deterioration of rubber garments of the present character, is due to improper drying after washing. It is the usual practice to hang up the garment by a loop or other suspending means provided at the rear center or front center of the waist band, the crotch of the garment forming a bag or cup-like portion in which the water from the interior sides of the garment collects and remains until evaporating. In a comparatively short time this causes the rubber to rot because the water remains on the rubber of the garment for too great a period and very often does not thoroughly dry out.

The location of the portions c of the reinforcing strips 9, which portions intersect the openings 6, are so arranged and positioned that when a garment, after being washed, is hung up by the loop formed by the portions c , one of the leg openings 3 is directly opposite one of the openings 6 and overlies it, as shown in Fig. 5. Thus the water on the inner faces of the garment drains down through the lowermost leg opening 3 as shown in Fig. 5, there being no obstructions which will tend to retain or impede the draining of the water or moisture. Moreover, a circulation of air is set up through these openings as well as through the other openings in the garment, thus quickly drying the interior faces of the garment and largely eliminating the deterioration of the rubber material composing the garment.

The side reinforcing strips 7 and 8, shown in Fig. 6 further have their side edges interturned upon themselves so as to additionally strengthen the side seams and the reinforcing strips 9.

From the above it will be observed that the present invention provides a garment which is extremely simple in construction and cheap to manufacture and having numerous features of advantage which render the garment extremely durable and which overcome numerous drawbacks found in similar garments now in use.

Having thus described the invention in the form in which it is at present devised, what is claimed to be new and for which it is desired to secure Letters Patent, is:

5 1. A garment comprising a trunk-like body having waist and leg openings, said garment having an opening in each of its side portions, reinforcing strips secured to said body of the garment and extending in a
10 general lengthwise direction across said openings in the sides of the garment.

2. A trunk-like garment having waist and leg openings, an opening in the body of the garment, and a reinforcing strip extending
15 across said opening in the body and extending in a general lengthwise direction of the garment.

3. A trunk-like garment having waist and leg openings, said garment having openings
20 therein at its side portions, side reinforcing strips extending from the leg openings to the waist openings on each side of the garment

and extending across said openings in the sides thereof.

4. A trunk-like garment having waist and leg openings, said garment being formed
25 with front and back sections, the side edges of said sections being cut away at points in their length to register and form openings when the contiguous edges of said sections
30 are brought together, seam-reinforcing strips overlying the contiguous edges of said sections and extending across said openings formed by said cut-out portions.

5. A trunk-like garment having waist and leg-openings therein, said garment having
35 an opening in the body thereof, and extending lengthwise of the garment and overlying said opening and secured to the garment at upper and lower portions of the opening.
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In testimony whereof I have hereunto set my hand.

JACOB STEIN.