

June 10, 1930.

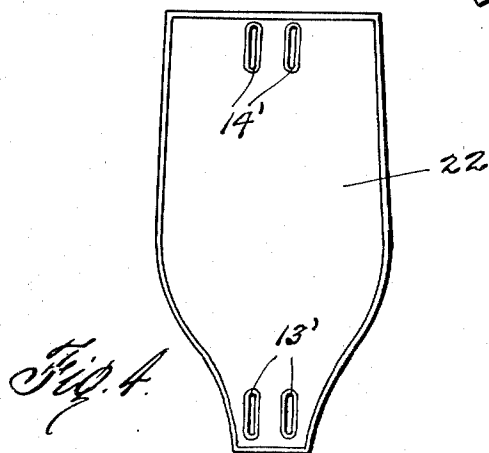
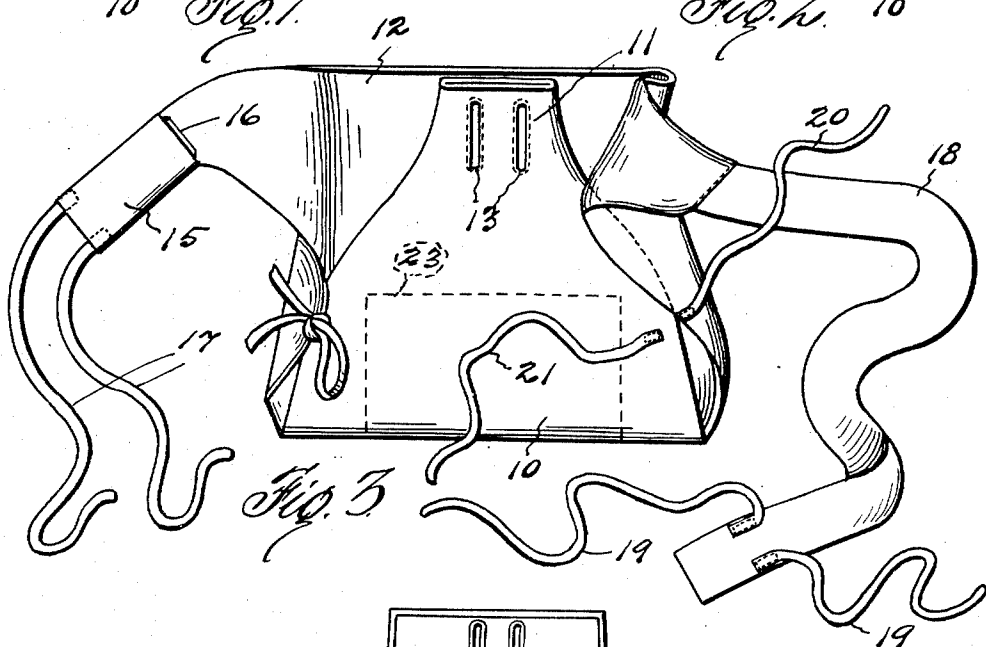
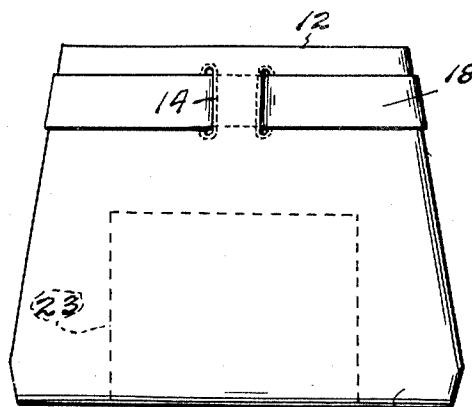
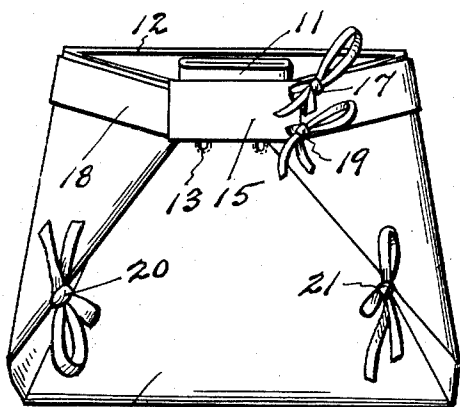
E. G. BREWER

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DIAPER

Filed Dec. 3, 1927

2 Sheets-Sheet 1

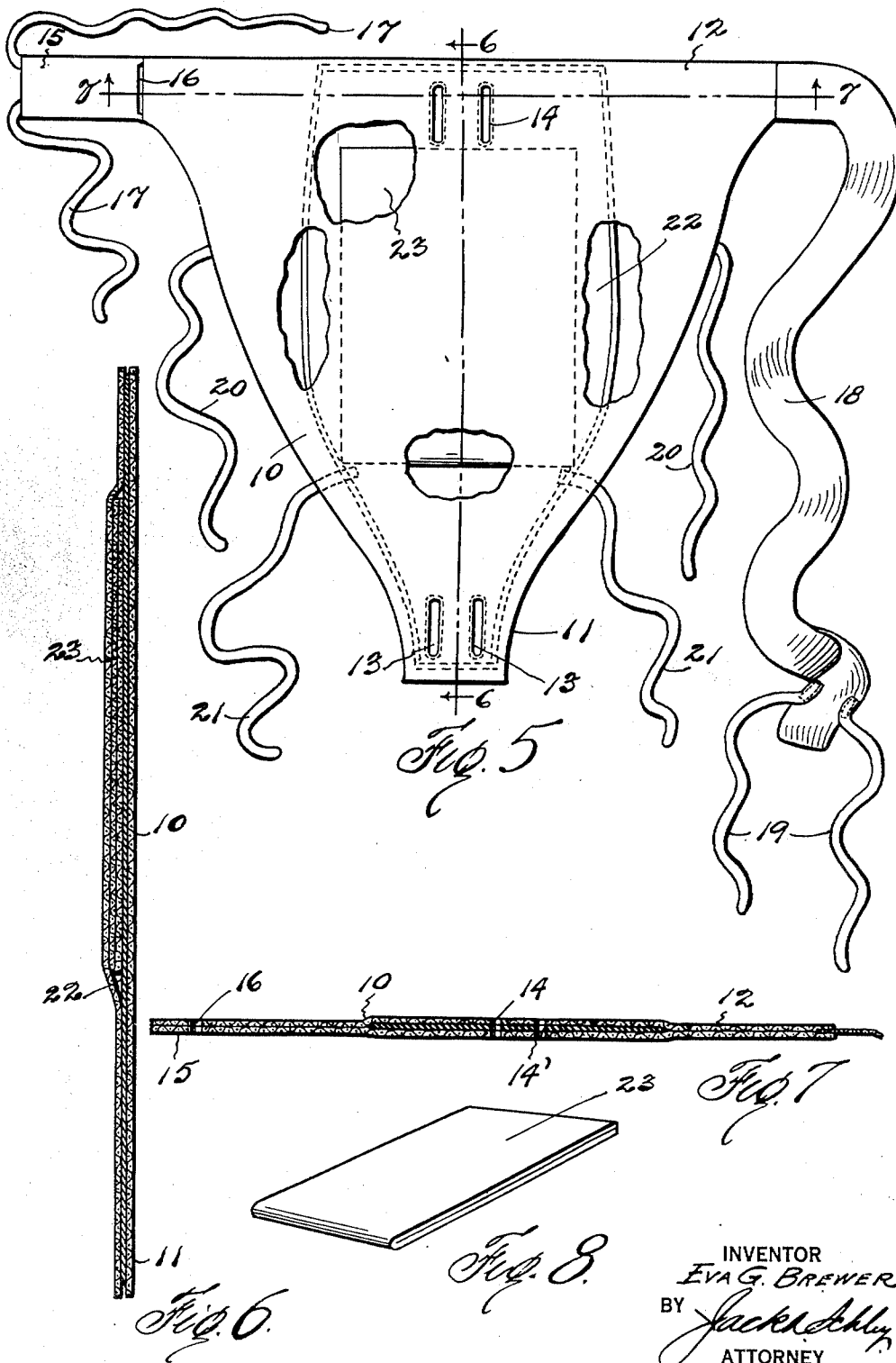


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DIAPER

2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE

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DIAPER

Application filed December 3, 1927. Serial No. 237,430.

This invention relates to new and useful improvements in diapers.

One object of the invention is to provide a diaper which will combine several advantageous features making for sanitation, comfort, convenience and efficiency.

A further object of the invention is to combine, in a single garment, the qualities of the usual cloth diaper and the ordinary rubberized pants, and to do so in such a manner that the water-proofing element may be removed when it is not desired to use the same or when the diaper is washed, thus saving said member from injury which would result from immersion in hot water.

A particular object of the invention is to provide a diaper which may be readily fastened around the body of an infant without the use of safety pins or like fastenings and in such a manner as to provide reasonable adjustability and at the same time effective fastening. An advantage of such an arrangement is that no metal fastenings, buttons or other hard substances, which might be uncomfortable, are used.

A still further object of the invention is to provide a diaper in the form of an envelope or casing in which waterproofing sheets, pads and the like may be inserted and removed when desired.

A very important object of the invention is the provision of a diaper particularly shaped to properly and comfortably fit around the body of the infant so as to give maximum protection for all purposes.

A construction designed to carry out the invention will be hereinafter described, together with other features of the invention.

The invention will be more readily understood from a reading of the following specification and by reference to the accompanying drawings, in which an example of the invention is shown and wherein:

Fig. 1 is a front elevation of a diaper constructed in accordance with the invention, folded and secured in substantially the position it will occupy when placed around the body of an infant,

Fig. 2 is a rear elevation of the same,

Fig. 3 is a front view showing the belt un-

fastened and one pair of leg straps untied, Fig. 4 is a plan view of the removable water-proofing sheet,

Fig. 5 is a plan view of the diaper with its parts unfolded and unsecured in substantially the position it will be placed when it is to be secured around the body of an infant, portions of the envelope being broken away to illustrate underlying parts,

Fig. 6 is an enlarged vertical sectional view taken on the line 6—6 of Fig. 5,

Fig. 7 is a cross-sectional view taken on the line 7—7 of Fig. 5, and

Fig. 8 is a perspective view of the removable pad.

In the drawings the numeral 10 designates a cloth envelope or body having complementary front and rear sides and made of cloth usually used for this purpose. The envelope is given a general fan shape flaring upwardly from a reduced tongue 11 at its bottom to a horizontal waist band 12 at its upper edge. The upper edge of the envelope is open along the waist band, similar to a pillow case, while the sides and bottom of the tongue are closed. This envelope may be suitably cut, sewed and otherwise fashioned, the particular details being considered within the scope of those skilled in the art and not necessary to illustrate.

The tongue 11 is provided with a pair of eyelets or slots 13 extending entirely through the envelope and similar slots 14 are provided in the upper central portion of said envelope. To one end of the waist band 12 is attached a tab 15 in such a manner as to provide a slit 16 between said tab and the end of the band. To the outer corners of the tab a pair of tying tapes 17 are attached. A strap 18 has one end secured to the opposite end of the waist band 12 and near its outer end is provided with a pair of tying tapes 19. The envelope is provided on each side just above its transverse center with tying tapes 20 and has below its transverse center other tying tapes 21. The tapes 20 are preferably attached to the edges of the envelope, while the tapes 21 are attached to the back of the envelope at points inwardly from the edges, as is indicated in Figs. 3 and 5.

When the diaper is to be secured on the infant, it is placed substantially as is shown in Fig. 5 and the infant laid upon the diaper. The tongue 11 is folded upward to the position shown in Fig. 3. The strap 18 is threaded through the eyelets 13 and then passed through the slit 16 and carried around underneath the waist band 12, as is shown in Fig. 2. To hold the strap in place it is threaded through the eyelet 14, as is also shown in Fig. 2. The tab 15 is folded across the tongue, as is shown in Fig. 1, and its tapes 17 are tied with the tapes 19, whereby the diaper is comfortably secured around the body and abdomen of the infant. The use of the tapes 17 and 19 and the tab and slit 16 provides an adjustment so that the diaper is made to comfortably fit the body.

It will be seen that when the tongue 11 is folded upwardly, the limbs of the infant will protrude below the tapes 20 and 21 on each side. By setting the tapes 21 inwardly, the folded side portions of the diaper may be made to overlap the tongue portion, when said tapes are tied, thus affording more adequate protection and also permitting comfortable adjustment. The diaper is readily applied and as easily removed.

When it is desired to provide a water-proof diaper, a rubberized sheet or panel 22, as shown in Fig. 4, is inserted in the envelope, as is shown in Fig. 5. This sheet is provided with eyelets 13' and 14' positioned to register respectively with the eyelets 13 and 14, so that when the strap 18 is passed through said eyelets 13 and 14 it will also be passed through the eyelets 13' and 14', thus holding the sheet in place. It is obvious that the protecting sheet may be readily removed before immersing the diaper in hot water and also that said sheet may be made of any material suitable for the purpose and finished in any proper manner.

Under certain conditions it may be desirable to use a pad within the envelope and by folding a strip of cloth 23 upon itself, as is shown in Fig. 8, and inserting the pad thus formed in the envelope, as is shown in Figs. 5 and 6, a satisfactory arrangement will be had.

The use of the different tying tapes avoids the necessity of safety pins, buttons, or other fastenings commonly used. There will be nothing about this garment to injure or make the infant uncomfortable and the tying tapes 20 and 21 will permit the garment to be drawn sufficiently tight to properly hold, but not too tight to cause irritation or stop circulation. The manner of holding the water-proof sheet 22 has the advantage of eliminating buttons or other fastenings and tends to prolong the life of said sheet. It will be apparent that one sheet may be supplied and interchangeably used with a number of diaper envelopes.

It is obvious that if it was not desired to

use the protecting sheet 22 or the pad 23, the envelope or body 10 could be closed along the waist band 12 and the garment effectively used to a certain degree of satisfaction.

Various changes in the size and shape of the different parts, as well as modifications and alterations, may be made within the scope of the appended claims.

What I claim, is:

1. A diaper comprising an envelope and having attaching eyes at opposite ends, a strap attached to the envelope for securing it on the body of an infant, and a water-proofing sheet removably disposed within the envelope, the strap being threaded through the eyes at each end of said sheet for holding the said ends at the waist band when the strap is utilized for fastening the diaper.

2. A diaper comprising a fan shaped envelope including a tongue at its bottom and a waist band at its upper portion, said envelope being open along said waist band, the envelope having eyes in its tongue and in its waist band portion, a water-proofing sheet removably disposed in the envelope and having eyes registering with the eyes of the envelope, and a strap attached to the envelope and adapted to be passed around the body of an infant for fastening the diaper, said strap being passed through the eyes of the envelope and the sheet.

3. A diaper comprising a fan shaped body having a tongue at its lower end and a waist band at its top, the tongue being foldable upwardly and having eyelets, a strap attached to one end of the waist band of the body and having tying tapes, and a tab attached to the other end of the waist band of the body and having tying tapes, there being a slit between the tab and the waist band, the strap being passed through the eyelets of the tongue and the said slit and carried around the body of the infant so that its tying tapes may be tied to the tying tapes of the tab, said tab being disposed in front of the tongue and over the eyelets thereof.

4. A diaper comprising a fan shaped body having a tongue at its lower end and a waist band at its top, the tongue being foldable upwardly and having eyelets, a strap attached to one end of the waist band of the body, a tab attached to the other end of the waist band of the body and having tying means, there being a slit between the tab and the waist band, the strap being passed through the eyelets of the tongue and the said slit and carried around the body of the infant and tied to the tab, said tab being disposed in front of the tongue and over the eyelets thereof, and means for fastening the sides of the diaper when the tongue is folded upwardly.

5. A diaper comprising a tapering body including two layers of material forming an envelope having a foldable tongue at its lower end provided with eyelets and a waist

band at its upper end having centrally disposed eyelets, and straps secured to the eyelets and passing through the eyelets of the tongue for securing the diaper in use and also passing through the eyelets of the waist band for closing the envelope.

6. A diaper comprising a sheet of fabric adapted to be folded around the thighs of the body and having slits at opposite edges, a waterproof sheet removably disposed upon the fabric and provided with attaching slits arranged to aline with the slits of the fabric, and tying straps at opposite edges of the fabric adapted to be passed about the waist of the wearer and through the slits of both the fabric and waterproof sheet.

7. A diaper comprising an envelope having slits at its open end, a waterproof sheet removably disposed therein and provided with alined attaching slits, and tying straps at the sides of the envelope adapted to be passed about the waist of the wearer and through said slits to form supporting means for the diaper.

8. A diaper comprising a body provided with slits at one edge, a waterproofing sheet removably disposed thereon and having slits at opposite edges, and securing means disposed at the waist band of the diaper to embrace the waist of the wearer and engaging the slits of the body and both edge slits of the sheet when positioned for use upon the wearer.

In testimony whereof I affix my signature.
EVA G. BREWER.