Dec. 26, 1944. E. M. CARDEN 2,366,002

DIAPER

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Fig. 1.

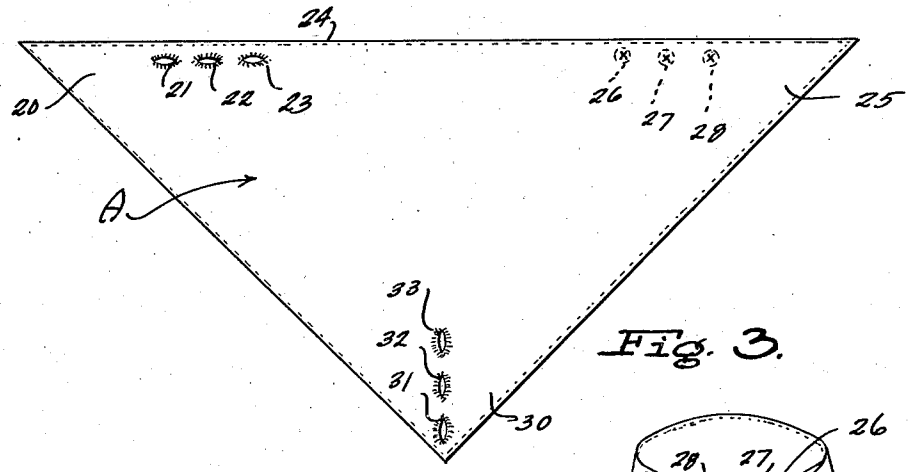


Fig. 2.

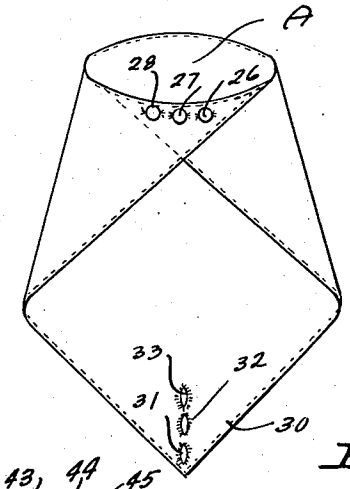


Fig. 3.

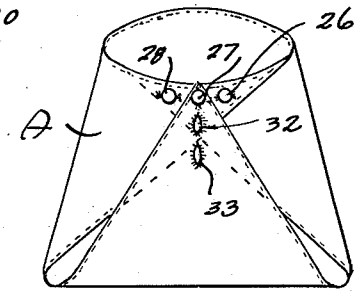


Fig. 4.

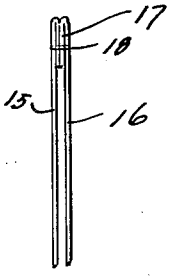


Fig. 5.

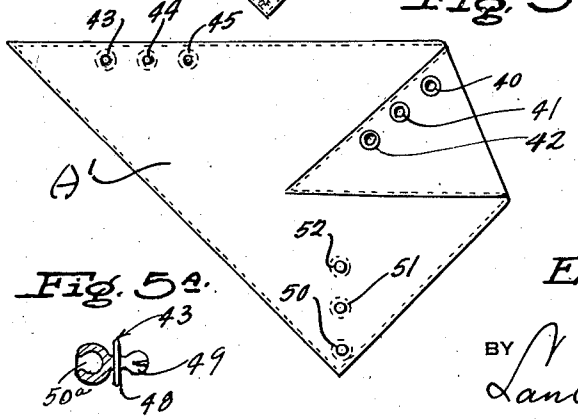


Fig. 5a.

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Fig. 6.

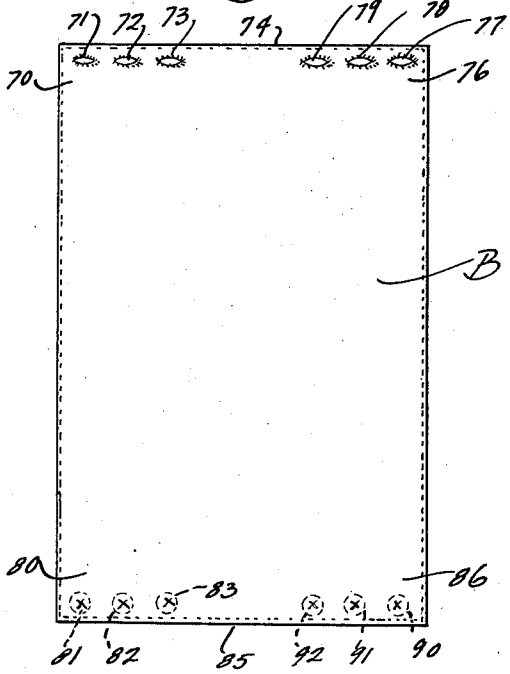


Fig. 7.

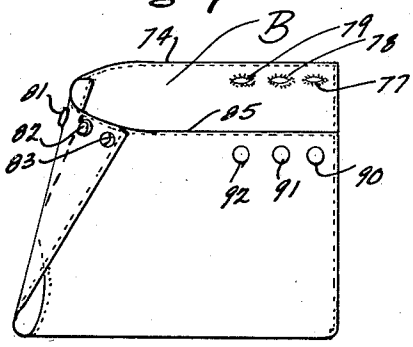


Fig. 8.

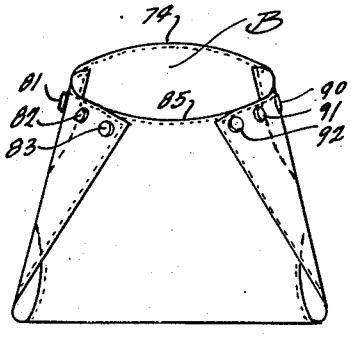


Fig. 10.

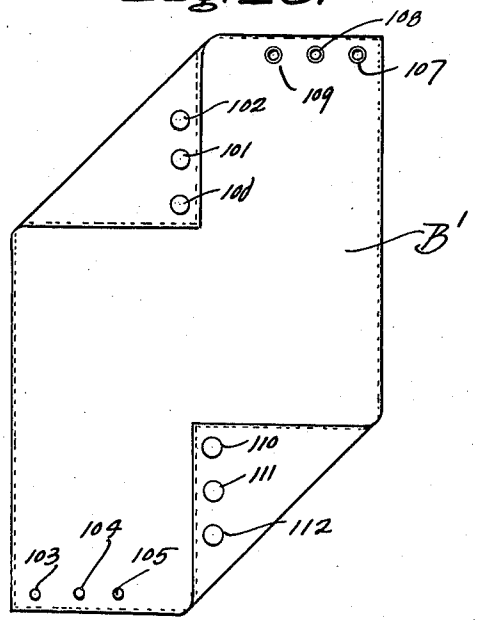
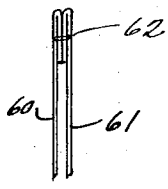


Fig. 9.



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Patented Dec. 26, 1944

2,366,002

UNITED STATES PATENT OFFICE

2,366,002

DIAPER

Elizabeth M. Carden, Beauport East, Quebec, Canada

Application March 30, 1942, Serial No. 436,907

1 Claim. (Cl. 128—284)

This invention relates to improvements in diapers.

The primary object of this invention is a diaper which is provided with adjustable fastening means formed as part of the diaper by means of which the diaper can be adjusted as to size.

A further object of this invention is the provision of a diaper which is formed with fasteners as part of the construction therof, thus obviating the liability of the infant swallowing pins and other fastening expedients; the improved fastener arrangement of the diaper permitting of its adjustment to suit the stature of the infant.

A further object of this invention is the provision of a diaper having both waist and length adjustments.

A further object of this invention is the provision of an improved diaper having fastener parts constructed integral or in connected relation with the diaper and which will permit of simple and accurate adjustment of the diaper upon the infant.

Other objects and advantages of this invention will be apparent during the course of the detailed description.

In the accompanying drawings, forming a part of this specification, and wherein similar reference characters designate corresponding parts thruout the several views,

Figure 1 is a view showing the preferred form of my diaper in extended relation.

Figure 2 is a view showing the manner in which the improved fastening means may be adjusted, as to girth of the infant.

Figure 3 is a view showing the assemblage of the diaper as it would appear upon an infant, and particularly showing the improved fastener arrangement.

Figure 4 is a cross sectional view taken thru a marginal portion of the diaper, showing the preferred formation of the diaper body.

Figure 5 is a view of a modified form of triangular-shaped diaper with snap fastener arrangements corresponding to the button and button-hole arrangement of the form of diaper shown in Figure 1.

Figure 5ª is a view, partly in section, showing a modified type of combination male and female snap fastener used with the diaper form of Figure 5.

Figure 6 is a rectangular-shaped form of diaper having my improved fastening arrangement associated thereon.

Figure 7 is a view showing how one side of the diaper is adjusted upon the body of an infant.

Figure 8 is a perspective view showing the assemblage of the diaper as it would appear when upon an infant.

Figure 9 is a cross sectional view taken thru a margin of the diaper, showing the preferred construction thereof.

Figure 10 is a view showing a modified form of snap fastener arrangement for the diaper of rectangular shape.

The diaper of Figure 1, designated at A, is of the old fashioned triangular shape. It is constructed of double layers 15 and 16, as shown in Figure 4 of the drawings; the margins of both layers 15 and 16 being inturned as shown at 17 and stitched 18 marginally around the entire diaper.

The fastener arrangement consists in providing at one corner 20 of the diaper three buttonholes 21, 22 and 23, the openings of which have their axes parallel with the waist margin 24 of the diaper. At the opposite waist corner 25 the diaper body is provided with buttons 26, 27 and 28, which are arranged in a line parallel with the edge 24. Buttons 26, 27 and 28 are adapted to be buttoned in the openings 21, 22 and 23. Any one of the buttons can be fastened in any one of the buttonholes provided therefor, so that the diaper A may be adjusted waistwise, as to size, to suit the girth of the infant wearing the same. The application of this triangular-shaped diaper, with respect to the above description, is shown in Figure 2 of the drawings.

The diaper A is furthermore provided at the other corner 30 with buttonholes 31, 32 and 33, the axes of which are in line and arranged with said line normal to the margin 24 of the diaper, and intersecting said margin 24 at the center or midway of the length thereof. These buttonholes 31, 32 and 33 are adapted to receive the buttons 26, 27 or 28 which lie along the axis of the buttonholes 31—33 extended, at the time the diaper is placed upon the infant. The assemblage is shown in Figure 3 of the drawings, but of course it is to be understood that any of the buttons 26—28 can be adjusted into any of the openings 21—23 and 31—33.

In the form of diaper A' shown in Figure 5, in place of the buttons 26, 27 and 28, I prefer to provide the socket or female portions 40, 41 and 42 of a snap fastener arrangement for the diaper. In place of the buttonholes 21, 22 and 23 of the form of invention A, I prefer to provide combination male and female snap fasteners 43, 44 and 45. One of these is shown in detail in Figure 5ª of the

drawings wherein 48 designates the portion fastened between the layers of the diaper, preferably by stitching; the stud or male portion 49 at one side thereof and the socket or female portion 50a at the opposite side thereof. Upon the diaper form A' the male portions are shown in Figure 5, and of course the female portions are at the opposite side. The male portions are adapted for use with the fasteners 40, 41 and 42. In the form of invention A' the male snap fasteners 50, 51 and 52 replace respectively the buttonholes 31, 32 and 33 of the form of invention A and they are adapted for adjustment in the socket portion 50a of the snap fasteners 43, 44 and 45 in a manner which is perfectly apparent.

Referring to the modern or rectangular-shaped diaper B, the same is formed of layers 60 and 61. The material of any of the diapers of this invention is optional. The layers are, of course, flexible and the layers 60 and 61 are marginally inturned and stitched at 62, as shown in Fig. 9.

The diaper B is provided at one corner 70 with three buttonholes 71, 72 and 73, the axes of said buttonholes being in line and parallel with the waist edge 74 of the back of the diaper. The opposite waist corner 76 of the diaper is similarly provided with buttonholes 77, 78 and 79, the axes of which are arranged parallel with the waist margin 74 of the diaper. At the opposite end of the rectangular-shaped diaper the corner 80 is provided with buttons 81, 82 and 83 which are adapted for adjustable and detachable securement with the openings 71, 72 and 73. These buttons 81—83 are arranged with their centers in a line which is parallel with the waist margin 85 of the end of the diaper upon which said buttons are positioned. At the opposite corner 86 the diaper is similarly provided with buttons 90, 91 and 92 which are adapted for respective connection with the openings 77, 78 and 79. The centers of the buttons 90, 91 and 92 are arranged in a line parallel with the margin 85.

It will of course be understood that any of the buttons 81—83 may be secured in any of the openings 71—73, and similarly any of the buttons 90—92 may be connected in any of the openings 77—79 in order to properly adjust the diaper to the girth of the wearer.

It is to be noted that whereas the rectangular-shaped diaper B is only waistwise adjustable, the diaper of the form of invention shown in Figures 1 and 5 is adjustable lengthwise as well as waistwise.

In the form of diaper B', shown in Figure 10, snap fasteners are substituted for the buttons and buttonhole arrangement of the form of invention B. Thus, I provide female snap fastener portions 100, 101 and 102 for detachable association with the snap fastener male portions 103, 104 and 105 at the opposite end of the diaper. Similarly I provide female snap fastener portions 107, 108 and 109 for adjustable detachable connection with the male snap fastener portions 110, 111 and 112 at the opposite end corner of the diaper B'. The arrangement and relation of the snap fastener parts of the diaper B' are exactly the same as that for the form of invention B, and for both of these forms B and B' the adjustment of the diaper waistwise is the same.

Various changes in the shape, size, and form of diaper upon which the improved fastening means is arranged may be made to the invention, without departing from the spirit of the same or the scope of the claim.

I claim:

A diaper comprising a flexible triangular body having a hypotenuse margin which is adapted to be assembled waistwise around the infant, said diaper at one corner thereof and parallel with the hypotenuse edge having a plurality of combination male and female snap fastener portions each of which presents at one side of the diaper a male fastener portion and at the opposite side of the diaper a female fastener portion, a plurality of female snap fastener portions at the opposite corner of the diaper parallel with the hypotenuse edge adapted for snap fastener cooperation with the male portions of the combination female and male snap fastener portions first mentioned, and a plurality of male snap fastener portions at the apex of the diaper adapted for selective snap fastener connection with the socket portions of the combination male and female snap fastener portions first mentioned.

ELIZABETH M. CARDEN.