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PINLESS ADJUSTABLE DIAPER

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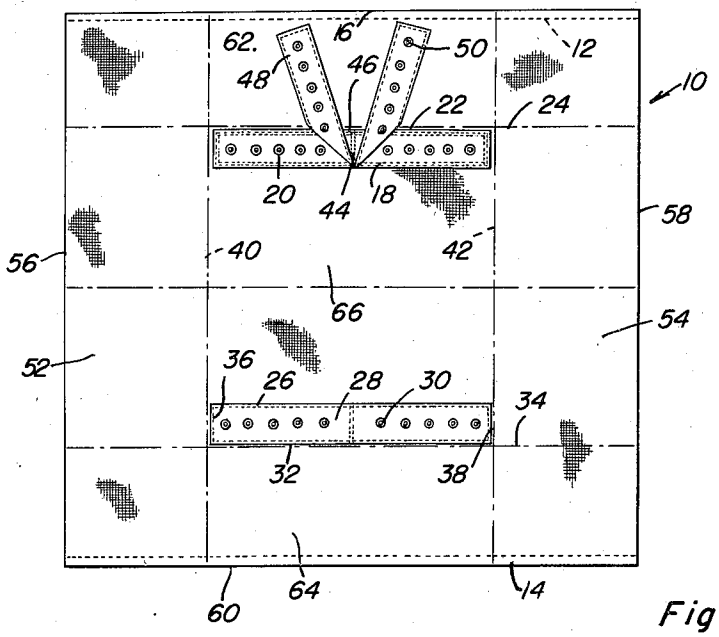
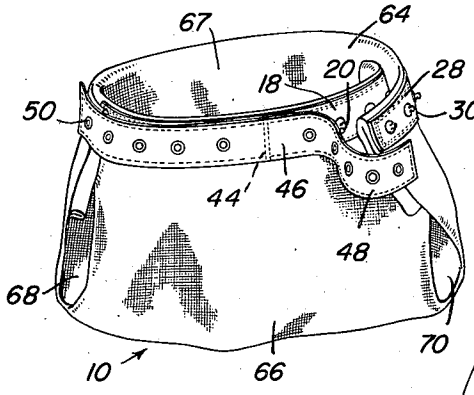
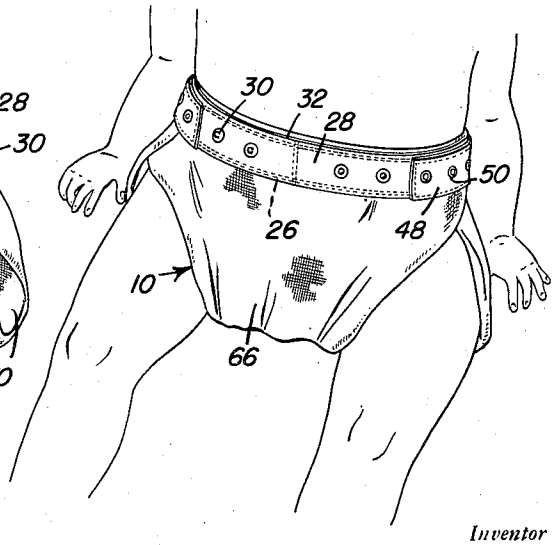


Fig. 1.

Fig. 3.

Fig. 2.





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PINLESS ADJUSTABLE DIAPER

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5 Claims. (Cl. 128—284)

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This invention relates to new and useful improvements in baby diapers and the primary object of the present invention is to provide a diaper which can be quickly and readily secured in place in an adjustable manner to comfortably embrace various sizes of infants' waists.

Another important object of the present invention is to provide a baby diaper including novel and improved means for securely fastening the same in place to a baby without the necessity of having to employ pins or the like which frequently harmfully affect infants.

A further object of the present invention is to provide a pinless adjustable diaper including a sheet of foldable material, a pair of spaced anchoring strips carried by the material and a belt fixed to one of the anchoring strips and engageable with both of the anchoring strips to provide an adjustable waist opening which will comfortably embrace an infant or the like.

A still further aim of the present invention is to provide an adjustable diaper of the pinless type that is simple and practical in construction, strong and reliable in use, conveniently foldable, neat and attractive in appearance, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a top plan view of the present baby diaper in an open or unfolded position;

Figure 2 is a perspective view showing the present baby diaper in a folded position with one end of the holding strap disengaged from the anchoring strips; and,

Figure 3 is a fragmentary perspective view showing the present baby diaper in assembled form applied to an infant.

Referring now to the drawings in detail, wherein for the purpose of illustration there is disclosed a preferred embodiment of the present invention, the numeral 10 represents a substantially rectangular or square blank of flexible material preferably absorbent to moisture, such as a gauze, cotton or cloth material. The longitudinal edges of this material are folded inwardly and secured to themselves by stitching or the like 12 and 14 to further reinforce the material and to prevent unraveling thereof.

Fixed to the material adjacent the longitudinal edge 16 thereof, is a first substantially rectangular anchor strip 18 that supports a plurality of longitudinally spaced male snap fasteners 20. This anchor strip 18 is provided with a longitudinal side edge 22 that aligns or defines a longitudinal fold line 24 provided in the material and spaced parallel to the longitudinal edge 16.

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Rigidly secured to the material 10 by stitching or the like 26, is a substantially rectangular second anchor strip 28 that supports a further plurality of longitudinally spaced male snap fasteners 30. This anchor strip 28 is provided with a longitudinal edge 32 that aligns or which defines a further longitudinal fold line 34 for the material 10. Also, this anchor strip 28 includes transverse side edges 36 and 38 that also define or align spaced parallel transverse fold lines 40 and 42 for the material 10.

Fixed to the central portion of the first anchor strip 18 by stitching or the like 44, is a central portion 46 of a substantially rectangular and flexible holding belt or strap 48 and supports a plurality of longitudinally spaced female snap fasteners 50 which are engageable with either the male snap fasteners 20 of the first anchor strip 18 or the male snap fasteners 30 of the second anchor strip 28.

It should be noted that there is provided a pair of side panels 52 and 54 between the transverse fold lines 40 and 42 and the transverse side edges 56 and 58 of the material 10 and that the side panels 52 and 54 are preferably of a width equal to one-half the width of the material 10 whereby when the same are folded inwardly upon one face of the material 10 the then formed article will be of a double thickness to comfortably engage the infant's body. Further, between the longitudinal edge 16 and longitudinal fold line 24 of the material 10, and the longitudinal fold line 34 and longitudinal edge 60 of the material 10, respectively, is provided a back or rear panel 62 and a forward panel 64.

In practical use of the present diaper, as shown in Figure 1, the side panels 52 and 54 are first folded inwardly upon the inner face of the material 10 to provide a double thickness for the same. Next, the forward panel 64 and rear panel 62 are folded inwardly along fold lines 34 and 24 to engage the side panels and overlie the central portion 66 of the material 10 in which form the article will assume the configuration illustrated in Figure 2. The female snaps 50 on the belt 48 are engaged with a suitable number of the male snap fasteners 20 on the first anchor strip 18, the ends of the forward panel are then extended between the free ends of the strap or belt 48 and against

the anchor strip 18 as shown in Figure 2, and the remaining unfastened or unsecured female snap fasteners 50 are engaged with the male snap fasteners 30 which are carried by the second anchor strip 28. Such an operation will form a waist opening 67 and a pair of leg openings 68 and 70. To increase the circumference of the waist opening 67, it is merely necessary to disengage the fasteners 50 of the belt 48 from the fasteners 30 carried by the anchor strip 28 and to pull outwardly on the panel 66 and the portion of the material opposing the same, until the panel opposes or is disposed between a selected pair of fasteners 20 carried by the anchor strip 18. The fasteners 50 of the belt 46 are then engaged with the fasteners 20 up to the position adjacent the panel 66, whereupon the ends of the belt 48 overlie the anchor strip 28 and are secured to the fasteners 30 carried by the latter.

Obviously, any selected circumference of the waist opening 67 may be maintained by merely adjusting the belt 48 with the anchor strips 18 and 28.

It should be noted that although portrayed in the drawings there is disclosed a substantially rectangular sheet of material 10, obviously, the same could be rectangular or any other suitable shape, the only requirements being that the fold lines 24 and 34 be parallel to each other as well as the fold lines 40 and 42.

It is noted, that all of the male snap fasteners, namely, 20 and 30 will be protected by layers or thicknesses of material to prevent the same from pressing into or harmfully affecting the infant about which the present diaper is applied.

Obviously, the blank forming the present diaper could be so folded so that the side panels 52 and 54 would overlap each other whereby the diaper would include more than only two layers, thus providing additional thickness for the same. However, the anchor strips would still outline and define the central portion 66.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention what is claimed as new is:

1. An adjustable diaper comprising a sheet of flexible material having a pair of spaced parallel fold lines, a first anchor strip fixed on the material adjacent one of the fold lines and supporting a group of snap fastener halves, a second anchor strip fixed adjacent the remaining fold line and supporting a further group of snap fastener halves, and a holding belt carried by the first anchor strip and supporting a group of snap fastener halves for selectively engaging the snap fastener halves carried by each of the strips to provide a waist opening.

2. An adjustable diaper comprising a substantially rectangular sheet of flexible material having a pair of longitudinal fold lines adjacent its longitudinal edges and a pair of transverse fold lines adjacent its transverse edges, side panels provided between the transverse fold lines and the transverse edges of the material, a forward panel provided between one of the longitudinal fold lines and one longitudinal edge of the material, a rear panel provided between the remaining longitudinal fold line and the remaining longitudinal edge of the material, a first anchor strip fixed on the material adjacent the back panel, a group of snap fastener halves carried by the first strip, a second anchor strip carried by the material adjacent the forward panel, a further group of snap fastener halves carried by the second strip, a flexible belt having a central portion fixed to the first strip, and another group of snap fastener halves carried by the belt engageable with the snap fasteners carried by said first and said second strips for providing a waist opening for the diaper.

3. The combination of claim 2 wherein said first strip and said second strip include longitudinal outer edges aligning the longitudinal fold lines of said material.

4. The combination of claim 2 wherein one of said anchor strips includes transverse edges spaced parallel to the transverse edges of the material and aligning the transverse fold lines for the material.

5. The combination of claim 2 wherein the combined widths of the side panels are equal to one half the length of the material.

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