July 18, 1950 H. SCHWARZBERGER 2,515,737

BABY DIAPER

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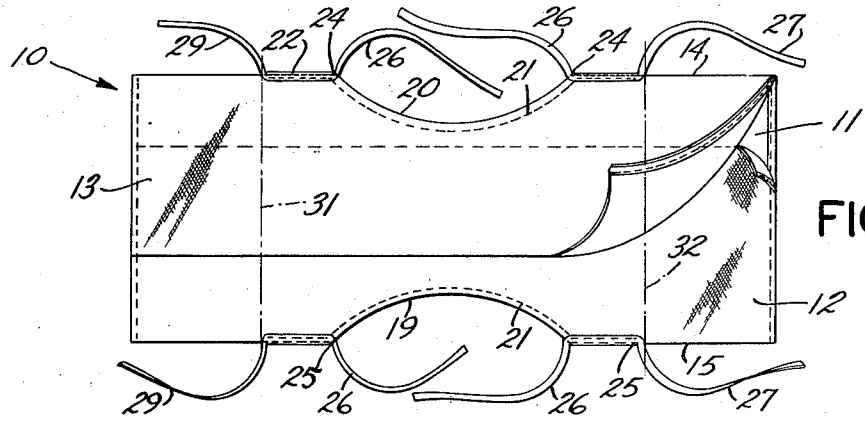


FIG. 1.

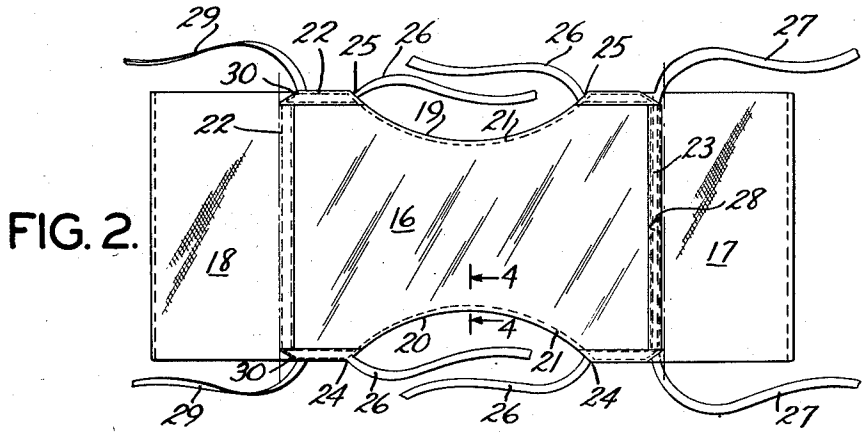


FIG. 2.

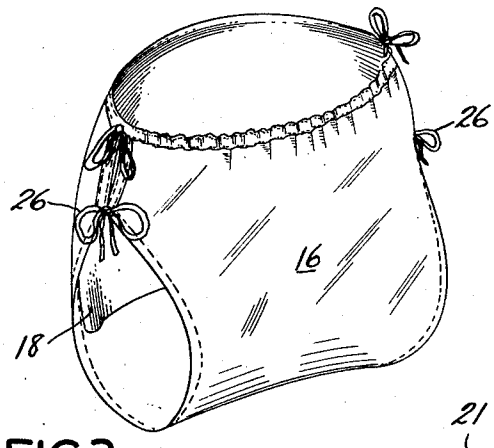


FIG. 3.

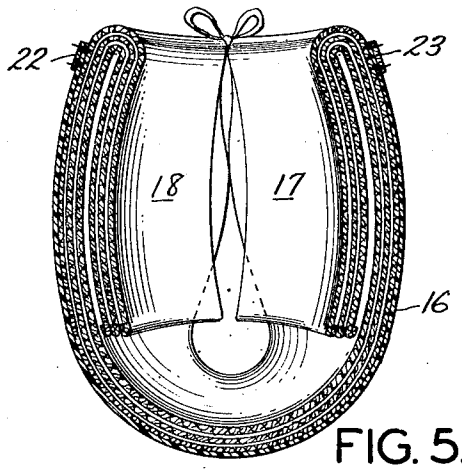


FIG. 5.

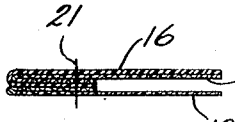


FIG. 4.

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BABY DIAPER

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4 Claims. (Cl. 128—287)

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This invention relates to baby diapers.

Broadly, it is an object of the invention to provide a diaper which can be securely fastened in position upon a child without the aid of pins of any type and which will snugly and securely be safely fastened in position and properly fit the child.

More particularly, it is an object of the invention to provide a waterproof outer sheet in association with the diaper so that the diaper will absorb the moisture and retain such moisture within the diaper eliminating the necessity of waterproof panties.

Another object of the invention is to provide a diaper in combination with a waterproof outer covering which can be easily washed as a unit and which will dry as fast as the diapers heretofore used.

Still another object is to provide a diaper shaped to the form and which is adjustable to the average waist dimension of the child.

Another object is the arrangement of the folds of the diaper so that it can be readily folded and will lie flat around the body of the child without irregular folds which may be uncomfortable for the child.

Still another object permits an arrangement of folds providing a plurality of plies around the front and back of the child for maximum absorption of moisture and permits the child to be diapered in any position in which it happens to be.

A further object of the invention is the elimination of the necessity of using a separate pair of waterproof panties.

For a fuller understanding of the nature and objects of the invention, reference is had to the following detailed description in connection with the accompanying drawing in which:

Fig. 1 is an inside view showing the diaper with its outside longitudinal panels folded inwardly.

Fig. 2 is an outer view of the folded position of the diaper shown in Fig. 1, showing the waterproof outer covering material.

Fig. 3 is a perspective view of the diaper with the tiestrings tied in position as it would appear when used on a child.

Fig. 4 is an enlarged sectional view taken through line 4—4 of Fig. 2.

Fig. 5 is an enlarged vertical section of the diaper.

Referring to the drawing numeral 10 represents a diaper made of a single sheet of fabric of substantially rectangular shape providing a central rectangular panel 11 and a pair of opposed portions 12 and 13 which are adapted to be folded over one another providing three plies of fabric material. In order to permit the diaper to snugly and properly fit around the legs of the child an oval portion of the fabric is removed from the opposed sides of the fabric on either side of the fold lines 14 and 15 at the central portion of the fabric so that when the panels 12 and 13 are folded over along fold lines 14 and 15 an arc is provided on each of the opposed sides which permits the material to properly circumscribe the thighs of each leg of the child.

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In order to provide an outer waterproof covering for the diaper a central shaped panel 16 of waterproof material, such as vinyl plastic sheeting is provided as best shown in Fig. 2. This panel is arcuately cut along the opposed edges taking the shape of approximately one half of the oval portions cut from the fabric. Panel 16 is substantially rectangular in shape and covers substantially the central portion permitting the opposed outer panels 17 and 18 of the fabric to be exposed.

In the construction of the diaper, the edges 19 and 20 of the oval portions which had been removed are turned inwardly together by stitching 21 which runs adjacent to the edges 19—20 of the oval portions. Opposed tapes 22—23 are stitched beginning at one end 24 of the oval cutout so that one half of the tape lies on the portion 13 and the opposite half of the tape lies on the waterproof material 16. The tape is then folded at right angles as shown in Fig. 2 and is stitched so that it covers the edge of the waterproof material 16. The tape is then folded again at right angles running in a similar manner to the opposed end of the tape to the end of the opposite arcuate cutout 25. Tapes 22 and 23 are stitched in position. Tieing tapes 26 are attached by stitching at one end of the oval 24—25.

The tape 23 is stitched adjacent to the outer extremities providing a pocket within which tieing tape 27 lies with its opposed end protruding from the pocket. This tape 27 is attached at the central portion 28 by stitching so that the tape 27 cannot be lost. Tie strings 29 are attached at one end at the point 30 where the tape 22 is folded at right angles. Of course tape 22 can be formed with a pocket in a manner similar to tape 23 and the tie tape 29 can be drawn through such pocket and attached by stitching at the central portion in a manner similar to tape 27.

In using the diaper the portions 12 and 13 are first folded inwardly and then the end portions are folded along fold lines 31—32 creating six plies of fabric at each end. One six-ply portion is placed beneath the child and the opposite end is passed between the legs and brought over the stomach. Tie tapes 27 and 29 are then tied at each end, pulling the drawtape so that the diaper will fit properly around the waist. Tapes 26 are then tied so that the arcuate portion of the diaper fits snugly around the thighs of the child. The waterproof material 16 thus completely covers the diaper and acts in the nature of waterproof panties. It should be noted that the waterproof material 16 is attached completely around all its outer edges to the fabric by stitching 24 and by the stitching of the tapes 22—23 so that the child cannot catch any edge with the fingers thus preventing the mutilation or destruction of the waterproof material 16. It should be further noted that only the soft absorbent fabric of the diaper comes in contact with the skin of the child and the tiestrings can be easily tied with the exact amount of tension so that the waist and thighs of the child are not irritated by binding which is a great disadvantage in the use of separable waterproof panties which have the waist and thigh portions circumscribed with elastic.

It is obvious that the mother saves a great deal of time in applying a combined diaper and waterproof covering. Such saving of time is especially valuable when handling an irritable child and especially an older child who generally struggles during the process of dressing. It is also obvious that completely stitching the edges of the waterproof material to the diaper fabric strengthens the waterproof covering. A further advantage is obvious in that one instead of two articles is being laundered and handled.

The use of my diaper hereinbefore described is absolutely safe since no safety pins or other metal fastening means is used. This provides a safe form of diaper covering which prolongs its use. It is well known that the so-called safety pin is a constant source of danger in many respects, such as the possibility of injuring the child while applying the safety pin, the danger of the pin opening, the possibility of dislodging the pin so that the child can swallow it or injure itself, etc. The points of safety pins also become blunt so that constant use will tear the fibres of the material. Many safety pins which are not properly finished or made of the best material also rust thus discoloring the diaper and providing an unsanitary source of danger.

My diaper hereinbefore described can be boiled in its complete form without injuring the waterproof material.

It is further obvious that various changes and modifications may be made in the details of construction and arrangement of parts without departing from the general spirit of the invention.

I claim:

1. A diaper of the character described comprising a substantially rectangular fabric portion, said fabric portion comprising a substantially rectangular central panel and two like opposed side panels adapted to be folded over one another, a substantially rectangular waterproof sheet attached around all its edges to the outside of said central panel, said central panel, side panels and said waterproof sheet having opposed arcuate cutouts and their central parts, all of said arcuate cutouts overlying one another, said waterproof sheet being less in length than said central and side panels providing end panels, binding tapes stitched from one end of each of said cutouts around said waterproof sheet to the end of the opposed cutout, stitching adjacent the arcuate cutouts attaching said waterproof sheet and said central and side panels together, tiestrings at the corners of said waterproof sheet for tieing said diaper around the waist of a child.

2. The diaper in accordance with claim 1 including tiestrings at each end of said cutouts.

3. The diaper in accordance with claim 1 including channels through said binding tapes transverse of said diaper through which said tiestrings pass, said tiestrings attached by stitching at the central portion.

4. The diaper in accordance with claim 3 including tiestrings at each end of said cutouts, said end panels adapted to be folded inwardly providing six plies of fabric at each end.

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No references cited.