

Oct. 9, 1951

J. E. MESMER
INFANT'S DIAPER

2,570,963

Filed Nov. 21, 1949

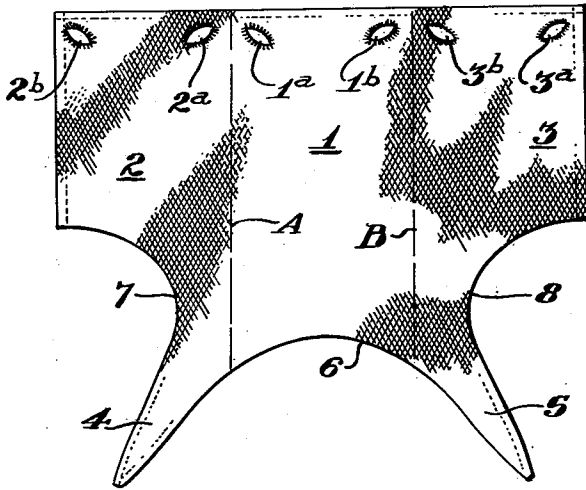


Fig. 1.

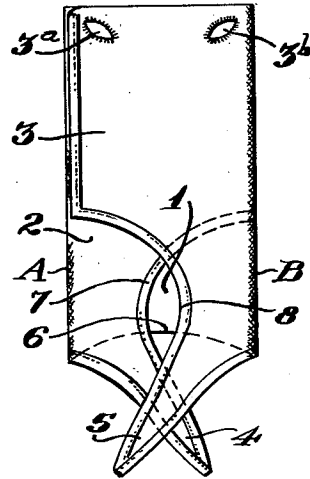


Fig. 2.

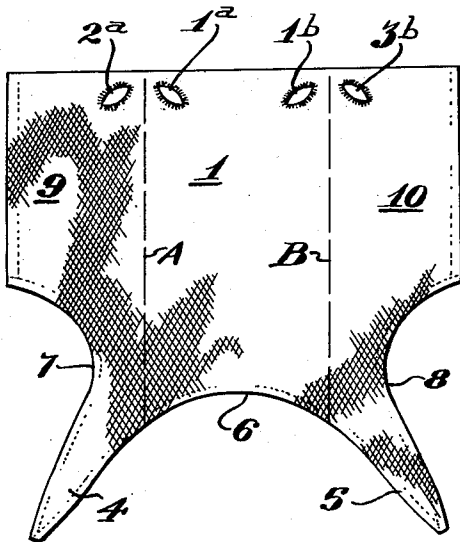


Fig. 4.

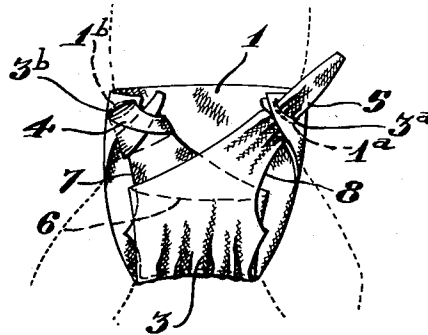


Fig. 3.

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2,570,963

INFANT'S DIAPER

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Application November 21, 1949, Serial No. 128,608

7 Claims. (Cl. 128-284)

1

My invention relates to diapers as worn by infants.

One of the greatest anxieties or fears manifested by mothers, and others, in putting a diaper on an infant, is pricking of the infant with pins that fasten the diaper in place, or by the accidental opening of a pin.

Another exasperating experience is the misplacement, loss, or lack of a pin, or other fastening means, when desiring to put the diaper on the infant.

One of the principal objects of this invention is to provide a diaper whereby no pins, or similar or separate fastening means, are required to change or put a diaper on the infant, thereby avoiding the aforementioned eventualities, but instead the diaper is so made that it may be easily and quickly put on the infant and fastened in place by means embodied within or forming a part of the diaper.

Another important object of this invention is to provide a diaper which is so made that if folded too small it may nevertheless be fastened in place and then enlarged to the desired extent and comfort of the infant without danger or possibility of any pin or fastening means being opened or becoming unclasped.

A further important object of this invention is to provide an infant's diaper which may be easily and economically fabricated.

With these and other objects in view, as will appear hereinafter, I have devised an infant's diaper having certain novel features and arrangement of parts and portions, as will be hereinafter described in detail, and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the characters of reference thereon, which form a part of this application, in which:

Fig. 1 is a developed view of an infant's diaper shaped or cut in accordance with my invention; Fig. 2 is a view thereof partly folded;

Fig. 3 is a view thereof wholly folded, as it appears when placed around an infant's body, shown by dotted lines; and,

Fig. 4 is a developed view thereof in a slightly modified form.

One form of the infant's diaper of my invention is shaped or cut substantially as shown in Fig. 1. When applied to an infant it is folded about the folds designated A and B, forming a central section 1 and edge sections 2 and 3, the latter being designated flaps. When these flaps are folded inwardly about the fold lines A and B they provide overlying sections or layers, the

2

flap 2 and 3 being also referred to as edge layers.

Near one end of the sheet, which corresponds also with the same end of each section or layer, is provided a plurality of openings which may be substantially in the form of slits. The openings in the central section 1 are designated 1^a and 1^b, those in the section, layer or flap 2 are designated 2^a and 2^b, and those in the section, layer or flap 3 are designated 3^a and 3^b. These are all arranged in the same row near the upper end of the sheet. The openings or slits 1^a and 2^a are arranged adjacent the fold A. The openings or slits 1^b and 3^b are arranged adjacent the fold B. The opening or slit 2^b is located adjacent the free edge of the section, layer or flap 2, while the opening or slit 3^a is located near the free edge of the section, layer or flap 3.

The sections, layers or flaps 2 and 3 are provided, respectively, with tie strings 4 and 5 at the lower ends, that is, the ends opposite those provided with the openings. These tie strings taper gradually towards the free ends and extend angularly from approximately the middle portions of these sections towards their free edges. The bottom edge 6 of the sheet is cut on a wide curve, forming the lower edge of the central section 1 and the inner edges of the tie strings. The free edges of the sections, layers or flaps 2 and 3 have curved cutout portions 7 and 8 which form the outer edges of the tie strings, substantially as shown.

When the diaper is folded about the folds A and B, the article assumes a shape substantially as shown in Fig. 2. It is then reversed and the tie strings 4 and 5 are drawn upwardly and threaded through the openings at the upper end of the sheet. The tie string 4 is threaded, respectively, through the openings 1^b, 2^b, and 3^b, while the tie string 5 is threaded, respectively, through the openings 1^a, 2^a, and 3^a. They may be then tied by means of a single loop or knot, as indicated in Fig. 3.

In the modified form, as shown in Fig. 4, the shape or cut is substantially the same except that the end sections 9 and 10 are slightly narrower than the end sections 2 and 3, and the openings or slits at the free edges of these sections or flaps are omitted.

I wish it to be understood that I do not desire to be limited to the exact arrangement shown and described, for obvious modifications will occur to a person skilled in the art.

I claim:

1. An infant's diaper, comprising a flexible sheet foldable with its opposite edges inwardly

to form a plurality of overlying layers of the sheet, all of the layers having at one end and adjacent their mutual folds openings registering when the layers are folded, the edge layers having at the ends thereof opposite the first mentioned ends integral gradually tapered tie strings at each edge, the string of each edge layer extending diagonally across the front of the diaper and being adapted, when the folded diaper is folded at a right angle, to be threaded through the registering openings in the other edge layer and center layer.

2. An infant's diaper, comprising a flexible sheet foldable with its opposite edges inwardly to form a plurality of overlying layers of the sheet, all of the layers having at one end and adjacent their mutual folds registering openings, the edge layers having at the ends thereof opposite the first mentioned ends integral, gradually tapered, angularly extending, tie strings diverging outwardly and downwardly, the string of each edge layer, when the folded diaper is folded at a right angle, extending diagonally across the front of the diaper and aligning with and being insertable through the registering openings in the other edge layer and center layer.

3. An infant's diaper, comprising a flexible sheet foldable along two vertical lines to form three overlying layers of the sheet, one center and two edge layers, all of the layers having openings at one end of the sheet and adjacent the folds registering when the layers are in folded condition, the edge layers having at the ends thereof opposite the first mentioned end integral, gradually tapered, diverging tie strings at each edge, each tie string extending diagonally across the front of the diaper and being adapted, when the folded diaper is folded at a right angle, to automatically align with and to be threaded through the registering holes in the other edge layer and center layer.

4. An infant's diaper, comprising a flexible sheet foldable along two vertical lines with its opposite edges inwardly to form three overlying layers of the sheet, the layers having at one end and adjacent their mutual folds openings registering when the sheet is folded, each edge layer having adjacent its free vertical edge another opening capable of registering with the opening in the other edge layer adjacent its fold, the edge layers having at the ends thereof opposite the first mentioned ends gradually tapered tie strings at each edge adapted, when the folded diaper is folded at a right angle, to said vertical lines, to extend diagonally across the folded sheet and to extend through the registering holes in the other edge layer, center layer, and the opening located at the free vertical edge of the same layer.

5. An infant's diaper, comprising a sheet of foldable material having a substantially rectan-

gular central section and a side flap at each side of the central portion, said section and flaps being defined by parallel, vertical fold lines, said sheet being foldable along said lines to provide a three-ply diaper with said flaps disposed against said central section, said section and said flaps having openings disposed adjacent the upper end of the sheet and said fold lines and adapted to register when the sheet is folded along said lines, the lower portion of each flap being of reduced width and terminating in an integral, tapered tie tape, said tie tapes diverging downwardly and outwardly and crossing each other when the sheet is folded along said fold lines, each of said tapes being directed toward and insertable through said registering openings at an upper corner of the folded sheet when the latter is folded back upon itself along a fold line extending normal to the first-mentioned fold lines.

6. An infant's diaper, comprising a sheet of foldable material having a substantially rectangular central section and a side flap at each side of the central portion, said section and flaps being defined by parallel, vertical fold lines, said sheet being foldable along said lines to provide a three-ply diaper with said flaps disposed against said central section, said section and said flaps having openings disposed adjacent the upper end of the sheet and said fold lines and adapted to register when the sheet is folded along said lines, the lower portion of each flap being of reduced width and terminating in an integral, tapered tie tape, extending below and laterally outwardly from the central section, said tie tapes diverging downwardly and outwardly and crossing each other when the sheet is folded along said fold lines, each of said tapes being directed toward and insertable through said registering openings at an upper corner of the folded sheet when the latter is folded back upon itself along a fold line extending normal to the first-mentioned fold lines.

7. An infant's diaper as defined in claim 6 in which said side flaps have curved cut-away outer vertical edges, said cut-away edges providing leg openings conforming substantially to the contour of the legs of an infant.

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