Aug. 12, 1947 J. D. HAZEN 2,425,617

DIAPER

Filed Aug. 18, 1943

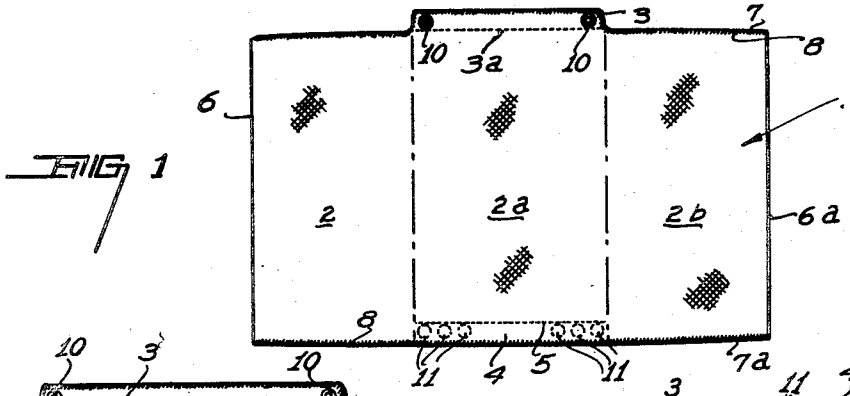


FIG 1

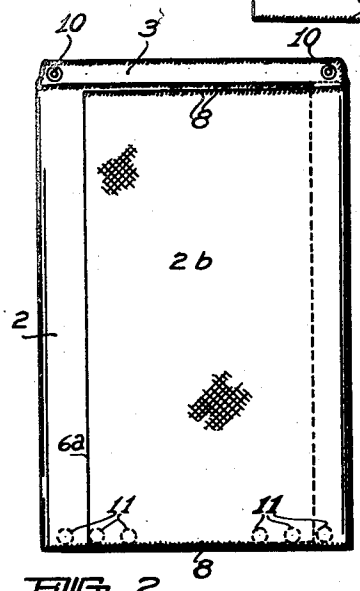


FIG 2

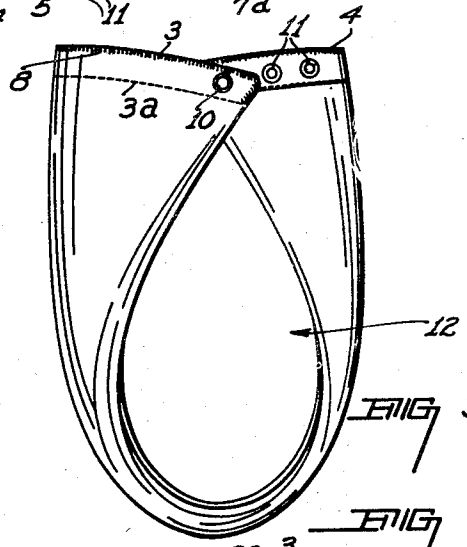


FIG 3

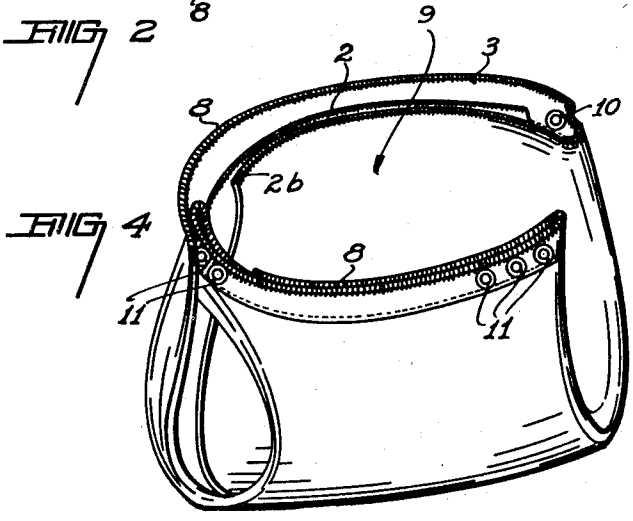


FIG 4

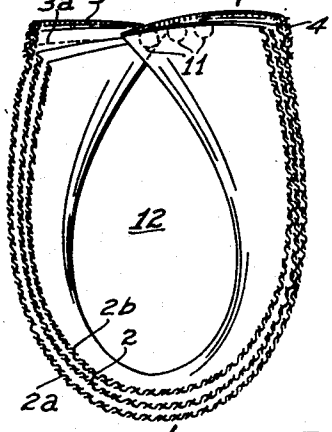


FIG 5

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2,425,617

DIAPER

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Application August 18, 1943, Serial No. 499,102

4 Claims. (Cl. 128—284)

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My invention relates to baby diapers and has for its particular object the provision of a diaper which may be formed of a single, flat section of material so that it can be easily washed but may be folded to define a multiplicity of overlying plies for increased absorbent ability.

The principal object of my invention is to provide a diaper of this character which may be secured to an infant by snap-type fastening devices so disposed that they will not be injured when the diaper is being washed and so positioned that they will not become readily unsnapped when disposed about the waist opening of said diaper.

A further object of my invention is to provide a diaper in which said fastening devices, comprising separable halves, may be secured at the ends of a single panel of a diaper, comprising but one of a number of panels, which panel with the engaging devices secured thereto will constitute one of the plies of a diaper and will also define the waist hole opening thereof.

This application refers to the same general subject matter as do my two co-pending applications for patent, the one entitled Baby diaper, filed October 14, 1940, Serial No. 352,571, and another entitled Folded diaper, filed October 12, 1942, Serial No. 461,727.

Further details of my invention are hereinafter described with reference to the accompanying drawings, in which:

Fig. 1 is a view of said diaper arranged flatwise and extended, the fold lines being indicated by broken lines in said drawing;

Fig. 2 is a view of said diaper with the separate panels shown folded one upon the other so that said panels are in superimposed relation, one upon the other;

Fig. 3 is a view of said diaper folded to define leg openings and a waist opening;

Fig. 4 is a perspective view of said diaper, folded and snapped at one side and unsnapped at the other, illustrating the manner in which it is used; and

Fig. 5 is a transverse sectional view through said diaper, taken in the same direction as is Fig. 3.

The diaper embodying my invention is made of a single, elongated section of fabric 1 which is adapted to define a multiplicity of panels 2—2*a*—2*b*. The central panel 2*a* is substantially longer than the two marginal panels 2 and 2*b*. An extension 3 at one end of said panel 2*a* projects beyond the edges of the adjacent panels, as is shown in Fig. 1. I preferably provide a

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hemmed portion 4 at the opposite end which is folded back upon the remainder and sewn thereto by stitching 5. Inasmuch as said diaper normally is made from a section of material of proper width, the two edges 6—6*a* are selvage edges and the edges 7—7*a* are raw edges and should be protected by overcasting 8 or be otherwise bound to prevent unravelling or fraying. The extension 3 also is preferably hemmed by stitching 3*a*.

The extension 3*a* and the opposite end of said panel carrying stitching 5 define the waist hole opening 9. The stitching and the overcasting of said parts tend to prevent the margins of said edges 2*a* from stretching. I preferably provide two snap halves 10 on said extension 3 and arrange such snap halves so that the base portions lie between the two hemmed portions thereof with the open pocket facing outwardly. On the opposite end of said central panel 2*a* I provide preferably a plurality of snap halves 11 carrying short studs. The snap half 11 at each side is adapted to engage one of the snap halves at same side but opposite end of said panel 2*a* in the manner illustrated in Figs. 4 and 5.

It is to be noted that the snap halves 10 face the reader in Fig. 1 while the snap halves 11 are secured to the opposite side of said panel 2*a*. Thus when the two edges are brought together to define the waist hole opening 9 they are in proper position for engagement. Tension exerted on said waist hole opening does not tend to disengage such snap fastener halves because said tension tends to pull said snap halves sidewise rather than away from each other. I deem it quite important. The two snap halves do not have to be so tightly engaged to resist being pulled apart as would be the case if such snap halves were on the same side of the central panel 2*a*. The leg hole openings 12 are formed by the folded edges between the outer panels and the central panel and thus said folded edge does not tend to chafe the tender skin of an infant.

Said diaper may be made of any suitable fabric and if said diaper is loosely woven to increase its absorbent quality, this will not affect the fit of the waist hole opening because of the presence of the folded edge, the stitching and the overcasting or binding thereof. It is desirable that a diaper be capable of being unfolded flatwise into a single thickness of material, not only to aid in the washing thereof, but, also, to aid its drying. Only a small portion of said diaper is more than one thickness, namely, the hemmed edges of the

central section 2a carrying the snap halves 10 and 11, respectively.

I claim:

1. A diaper comprising a flat elongated section adapted to be folded inwardly into a series of superimposed stacked panels, one of said panels being substantially longer than the remainder, having an end extension projecting beyond the remainder a substantial distance when said panels are stacked one upon the other, and with the opposite end of said panel constituting the waist band of said diaper, fastening devices comprising two engageable halves secured at the ends of said panel, respectively.

2. A diaper comprising a flat elongated section adapted to be folded inwardly into a series of superimposed stacked panels, a central panel being substantially longer than the remainder, having an end extension projecting beyond the remainder a substantial distance when said panels are stacked one upon the other, and with the opposite end of said panel constituting the waist band of said diaper, fastening devices comprising two engageable halves secured at the ends of said panel, respectively.

3. A diaper comprising a flat elongated section adapted to be folded inwardly into a series of superimposed stacked panels, one of said panels being substantially longer than the remainder, having an end extension projecting beyond the remainder a substantial distance when said panels are stacked one upon the other, and with the opposite end of said panel constituting the waist band of said diaper, fastening devices comprising two engageable halves, one half of each of said fastening devices being secured to said extension and the other half secured to the opposite end of said panel.

4. A diaper comprising a flat elongated section adapted to be folded inwardly into a series of superimposed stacked panels, one of said panels being substantially longer than the remainder, having an end extension projecting beyond the remainder a substantial distance when said panels are stacked one upon the other, and with the opposite end of said panel constituting the waist band of said diaper, fastening devices comprising two engageable halves, one half of each of said fastening devices being secured to said extension and the other half secured to the opposite end of said panel but upon the reverse side thereof.

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