April 10, 1951

A. O. KARELS

2,548,162

DIAPER

Filed Dec. 1, 1949

Fig. 1

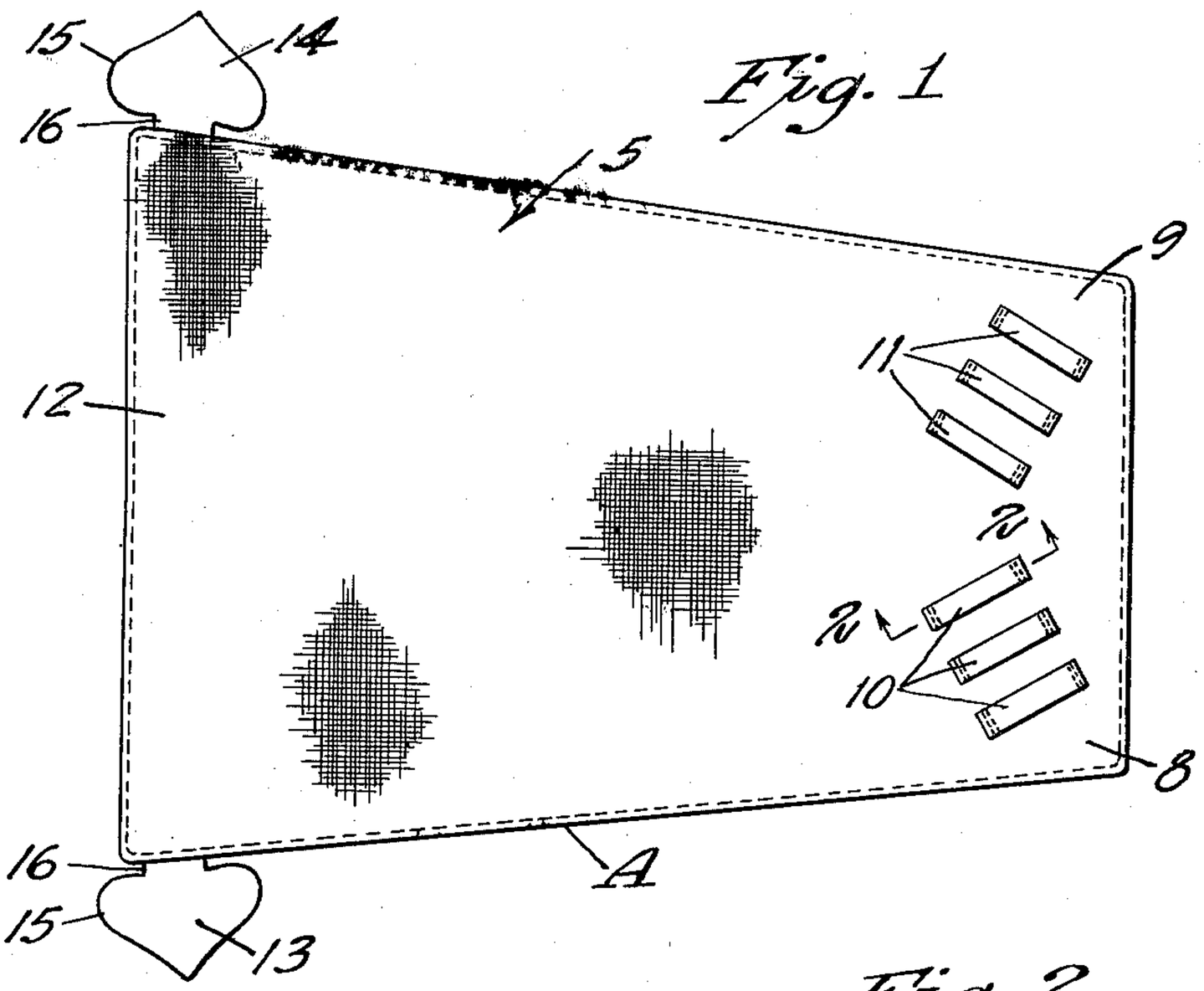


Fig. 2

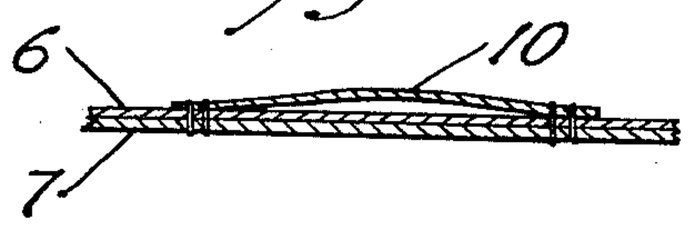
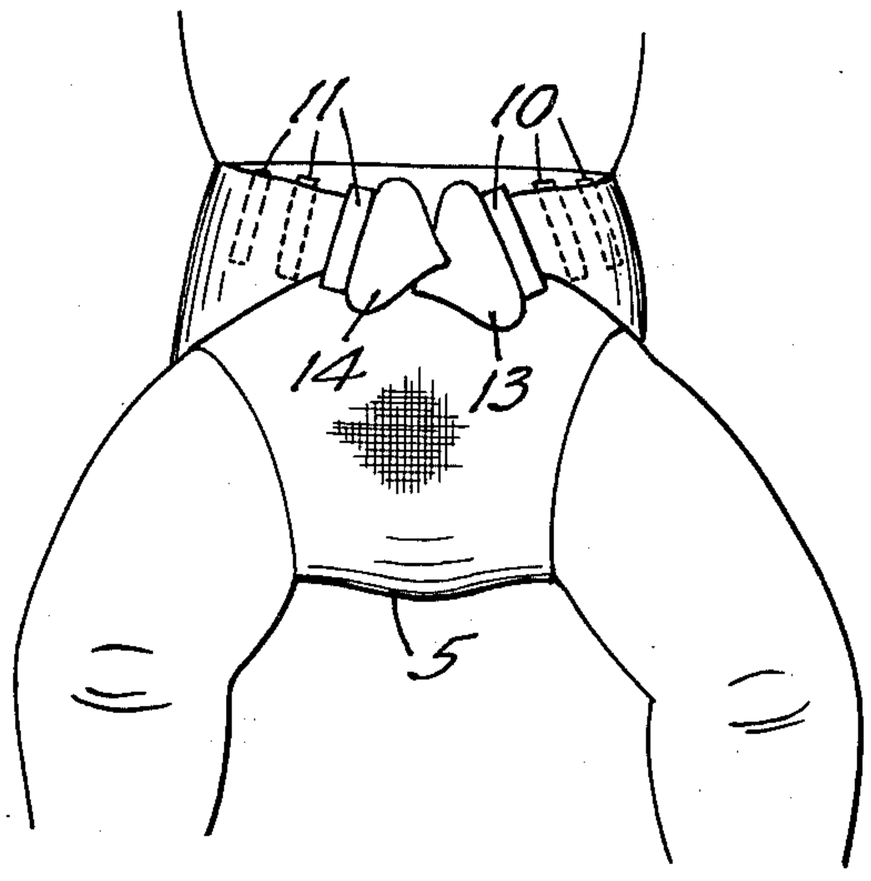


Fig. 3



Inventor
Amanda O. Karels
By Williamson & Williamson
Attorneys

Patented Apr. 10, 1951

2,548,162

UNITED STATES PATENT OFFICE

2,548,162

DIAPER

Amanda O. Karels, Young America, Minn.

Application December 1, 1949, Serial No. 130,527

5 Claims. (Cl. 128—284)

1

This invention relates to pinless diapers for babies.

An object of my invention is to provide a new and improved diaper of simple and cheap construction which can be quickly and easily fastened about the baby without employing pins or similar fasteners.

Another object is to provide a readily adjustable pinless diaper which will conform to the configuration of the baby's body and at the same time secure in a positive manner the four corners of the diaper and thereby prevent slipping, twisting, and disarrangement of the diaper.

A further object is to provide a pinless diaper for babies constructed to preclude the possibility of unfastening thereof by the infant wearing the diaper.

These and other objects and advantages of my invention will more fully appear from the following description made in connection with the accompanying drawings, wherein like reference characters refer to similar parts throughout the several views and, in which:

Fig. 1 is a top plan view of the outer side of a diaper embodying the invention showing the same laid out flat;

Fig. 2 is a sectional view along line 2—2 of Fig. 1;

Fig. 3 is a front view of the diaper secured in proper position on a baby.

An embodiment of the invention, as shown in Figs. 1–3, includes a sheet member 5 having two layers 6 and 7 secured together along their edges as by stitching A and formed in a substantially trapezoidal shape as shown in Fig. 1. One of the parallel sides of the sheet member 5 is longer than the other and the non-parallel sides are similar and of substantially equal length as shown. On one side of the sheet member 5 and to the two corner portions 8 and 9 adjacent the shorter parallel side are secured a plurality of substantially parallel spaced loops 10 and 11 respectively. These loops 10 and 11 are oriented substantially parallel to diagonals of the trapezoid opposite the corner in which the loops are positioned. Secured to the outer edges of the non-parallel sides of the sheet member 5 and near its wider end 12 are two heart-shaped locking tabs or ears 13 and 14. These tabs are made of heavy stiff fabric, plastic, or other suitable semiflexible material and are of dimensions such that their medial portions 15 exceed substantially in width, and their base portions 16 are slightly less than the width, of the openings formed by the loops 10 and 11.

2

Operation

My invention is easy to use and simple to manufacture. To fasten it onto the baby the wide end 12 of the sheet member 5 is placed against the back of the baby above the buttocks with the side carrying the loops 10 and 11 to the outside. The narrow end bearing the loops 10 and 11 is then brought through between the baby's legs and upward to meet the tabs 13 and 14. The locking tab 13 is inserted through the desired loop 10 and the locking tab 14 is inserted through one of the loops 11. The wider medial portions 15 of the locking tabs 13 and 14 then serve to lock in conjunction with the loops 10 and 11 respectively, and to hold the entire unit in a snug fit about the body of the baby as shown in Fig. 3. The provision of more than one loop in each corner of the narrow end of the sheet member 5 makes the diaper readily adjustable to fit babies of different ages and sizes. As the tabs 13 and 14 are connected to their respective loops the corner portions of the wide end 12 are carried around the corner portions 8 and 9 in overlapping relation as shown in Fig. 3.

The trapezoidal shape of the sheet member 5 in combination with the overlapping feature of its corners makes my invention a very desirable item. The combination of these features causes the sheet member 5 to fit the baby's body snugly and to conform to its configurations. The adjustable feature provided by the locking tabs 13 and 14 and the plurality of loops 10 and 11 insures a snug fit of the diaper above the hips of the baby. These tabs 13 and 14 in conjunction with the loops 10 and 11 insure the overlapping of the corners of the diaper and a positive securing of the front flap or narrow end of the sheet member 5. At the same time they prevent slipping, twisting, or disarrangement of the diaper without employing any pins or similar fasteners. The positioning of the loops 10 and 11 parallel to the diagonal of the trapezoidal shaped member 5 provides an uplift on the forward flap of the sheet member 5 when the tabs 13 and 14 are locked therein as well as a snug fit around the middle of the baby's body above his hips. This uplift keeps the entire diaper properly arranged and insures a good neat fit throughout.

It should be noted that the use of locking tabs and loops provides an easy means of attachment for the diaper, and eliminates the need for dangerous pins. It also eliminates the problem experienced when a tie means is used to secure the diaper, that of the baby constantly tugging at the tie strings and thereby untying the knot

and loosening the diaper. My invention provides an efficient, practical and safe pinless diaper which will not twist, slip, or become disarranged by the activities of the baby.

It should also be noted that this diaper can be laundered as a unit without fear of losing the means of attachment. This is a decided advantage over the use of buttons and pins for securing purposes. It is contemplated that the locking tabs 13 and 14 may be formed of rubber or plastic material instead of the heavy fabric material described above, in which case the tabs will not absorb water during washing of the diaper and accordingly the diaper can be quickly dried.

It will, of course, be understood that various changes may be made in the form, details, arrangement and proportions of the various parts without departing from the scope of my invention.

What I claim is:

1. A pinless diaper for a baby comprising a sheet member of substantially trapezoidal shape having at least one loop secured to one side of said sheet member at each corner portion of one end of said sheet member, said loops being oriented substantially parallel to the diagonals of said trapezoidal shaped member opposite the corner to which the particular loop is secured, and a locking tab attached to each corner portion of the other end of said sheet member, the tabs being adapted to be engaged with loops at the same side of the sheet member whereby the corners of the sheet member at the same side thereof may be secured together in overlapping relation after the sheet member has been carried around a baby's body.

2. A pinless diaper for a baby comprising a sheet member of substantially trapezoidal shape having an outer side and an inner side and having a plurality of loops secured to its outer side at each corner portion of the narrow end of said sheet member, said loops being oriented substantially parallel to the diagonal of said trapezoidal shaped member opposing the corner in which the loops are located, and a locking tab secured to the outer edge of each corner portion of the wide end of said trapezoidal shaped sheet member, the tabs being adapted to be engaged with loops at the same side of the sheet member whereby the corners of the sheet member at the same side thereof may be secured together in overlapping relation after the sheet member has been carried around a baby's body.

3. A pinless diaper for babies comprising a sheet of trapezoidal shape having parallel ends, one of which is wider than the other and having similar sides converging from the wider end of the sheet to the narrower end of the sheet, diagonally disposed loops attached to the sheet inwardly from the corners at the narrow end of the sheet, and short length heart-shaped tabs attached to the corners at the wider end of the sheet, the wider end of the sheet being of sufficiently greater width than the narrower end of the sheet so that its corner portions will overlap the corner portions of the narrower end of the sheet as a baby's body is embraced by the sheet and the tabs are engaged with loops at corresponding sides of the sheet.

4. The structure defined in claim 3, said loops being substantially parallel to diagonals of the trapezoid opposing the corners adjacent which the loops are located.

5. A pinless diaper for babies comprising a sheet of trapezoidal shape having parallel ends, one of which is wider than the other and having similar sides converging from the wider end of the sheet to the narrower end of the sheet, a plurality of spaced, diagonally disposed loops attached to the sheet adjacent each corner of the narrower end of the sheet to permit of adjustment of the diaper to babies of different size, and short length heart-shaped tabs attached to the corners at the wider end of the sheet, the wider end of the sheet being of sufficiently greater width than the narrower end of the sheet so that its corner portions will overlap the corner portions of the narrower end of the sheet as a baby's body is embraced by the sheet and the tabs are engaged with loops at corresponding sides of the sheet.

AMANDA O. KARELS.

No references cited.