

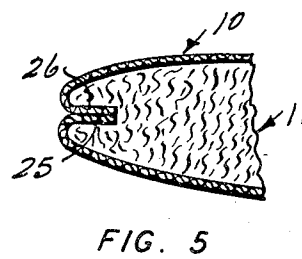
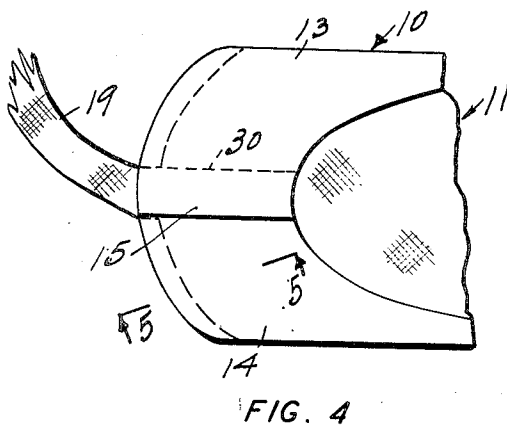
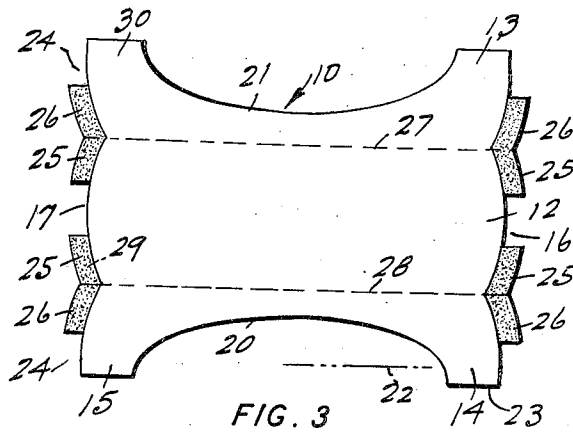
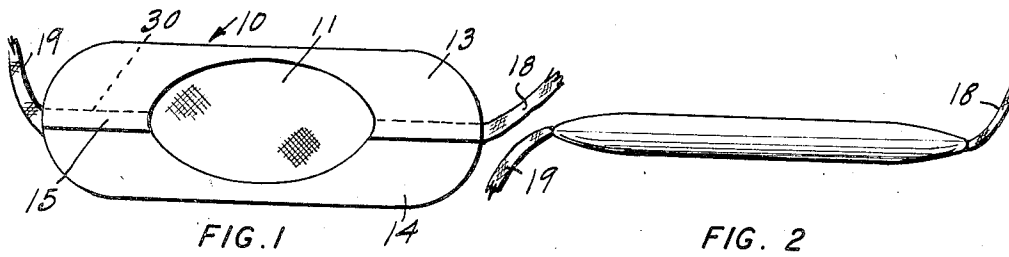
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E. K. NEWMAN

2,551,691

MOISTUREPROOF COVER FOR SANITARY NAPKINS

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INVENTOR.

E. K. Newman

BY

Philip R. Giddell
Attorney

UNITED STATES PATENT OFFICE

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MOISTUREPROOF COVER FOR SANITARY NAPKINS

Elsie K. Newman, Oakland, Calif.

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4 Claims. (Cl. 128—287)

1

This invention relates to improvements in sanitary napkins and particularly relates to an improvement in which the napkin is provided with a moisture-proof covering throughout its extent with the exception of an absorbing portion on the top side.

As is well known, sanitary napkins are made throughout of an absorbent material, the amount of fluid which can be absorbed being dependent on the volume of the napkin, and that such amount can never be attained without causing soiling of clothing, discomfort, and even embarrassment; in fact absorption should be limited to possible 25% of the capacity of the napkin for comfort and safety.

With my invention, the amount absorbed may be considerably increased with absolute safety, comfort and confidence because of the moisture-proof qualities of the cover in which the napkin is encased and which coincidentally leaves the portion of the top side or contact portion of the napkin exposed and free to receive fluids with the cover preventing passage from the sides or underside.

This cover may be made as an integral part of the napkin for discard therewith, or may be formed as a separate unit which can be cleaned and used again by insertion of a new napkin.

The objects and advantages of the invention are as follows:

First, to provide a waterproof sanitary cover for sanitary napkins.

Second, to provide a cover which may be formed as an integral part of the napkin or as a separate unit for replacement of napkin therein.

Third, to provide a cover as outlined which is formed to the specific outline of the napkin.

Fourth, to provide a cover as outlined with an opening in the topside for direct access to the napkin.

Fifth, to provide a cover as outlined which is simple in construction, economical to manufacture, and easy to apply to and remove from napkins.

In describing the invention reference will be had to the accompanying drawings, in which:

Fig. 1 is a top plan view of the invention with sanitary napkin in place.

Fig. 2 is a side elevation of Fig. 1.

Fig. 3 is a plan view of the pattern for making the covers.

Fig. 4 is an enlarged fragmentary view showing one end of the cover.

Fig. 5 is a section taken on line 5—5 of Fig. 4.

2

The cover 10 and napkin 11 may be formed as an integral unit to be discarded after use, but preferably consists of a separate cover having a bottom 12 and two top halves 13 and 14, in which the two top halves fold over each other as indicated at 15, and having an opening at each end as indicated at 16 and 17 for passage of the tabs 18 and 19 therethrough for securing the napkin in position.

In forming the cutout for the cover, a piece of material is cut to a form similar to that shown in Fig. 3, with a half oval formed in each side as indicated at 20 and 21 with the major axis located inside the edges as indicated at 22 so as to provide an overlap 15 equal to twice the distance from the edge 23 to the major axis 22, and which is preferably equal to the width of the tab 18 or 19.

The ends of the back portion 12 are rounded as shown to form round ends in the complete assembled cover, with the tab portions 16 and 17 cut back, and the side wings are rounded to conform to the rounded portions of the back when folded over, the end portions being cut away as indicated at 24 to leave tabs 25 and 26 for sealing the ends.

The pattern is folded at 27 and 28 and the tabs 25 and 26 are either sewed together or adhesively secured as by adhesive 29 applied to one face of the tabs, leaving a passage at each end at 16 and 17 for the tabs 18 and 19. After the ends are secured, the cover is turned inside out, placing the folded sewed or secured tabs 25, 26 on the inside to leave smooth surfaces exteriorly as illustrated in Fig. 5.

With this arrangement, to renew a napkin, the flaps 15 and 30 are opened, the soiled napkin removed, the cover is then washed and antiseptitized, dried and a new napkin inserted with the tabs 18 and 19 passing through the openings at 16 and 17, the flaps 15 and 30 are folded over, making the napkin ready for use.

This cover may be made of any suitable waterproof material, such as rubber, but preferably of one of the vinyl or similar soft sheet plastics. Obviously, with some types of plastics it would be possible to mold these covers to shape, though the assembled type has the advantage of opening at the respective ends by laying the flaps back for easy insertion of the tabs 18 and 19.

I claim:

1. A moisture-proof cover for a sanitary napkin formed of a sheet of waterproof material with the opening for the top being cut inwardly from the sides of the sheet in the form of half-ellipses

3
with the major axis located inwardly from the sides of the sheet to provide overlapping portions at the ends of the cover while forming an elliptical contact opening when the sides are folded over, and with the ends infolded and sealed together from each side to a point in spaced relation to the longitudinal center to provide a tab passage at each end.

2. A moisture-proof cover for a sanitary napkin comprising a sheet of waterproof material with an opening provided in the top and being cut inwardly from the sides of the sheet in the form of half-ellipses with the major axis located inwardly from the sides of the sheet to provide overlapping portions at the ends of the cover for opening for convenient insertion of the napkin and its tabs; said cover having rounded ends as viewed in plan and having projecting portions extending from each side of the cover to a point slightly spaced from the longitudinal center and folded inwardly and sealed together to eliminate rough edges and with the central portion of each end between said points slightly spaced left unsealed to provide a passage at each end for the tabs of the napkin.

3. A moisture proof cover for a sanitary napkin comprising; a pouch formed of waterproof material and having a bottom, a top, ends and sides, with the ends of the top and bottom formed substantially semi-circular and intumed and sealed together from each side a distance equal to substantially one-third the width of the bottom leaving an intervening tab-accepting space, and with the top formed of overlapping sections to be opened to the width of the tab accepting space for quick and convenient removal and replacement of a napkin and its tabs, and having a substantially elliptical opening provided throughout the major portion of its length when the overlapping sections are overlapped; thus pro-

viding for quick interchange of napkins and a cover with turned periphery to prevent irritation.

4. A moisture proof cover for a sanitary napkin comprising; a sheet of waterproof material having formed in each side edge a semi-elliptical recess with its major axis spaced inwardly from the edge and extending throughout the major portion of the length leaving overlapping portions at the respective ends; an intervening center portion having a width equal to the combined width of the two side portions less the width of said overlapping portions, and with the center portion and the two side portions arcuately formed at the ends with projecting tabs extending equally on both sides of the junction points of said side and center portions and extending substantially one-third of the width of the center portion and inwardly turned and sealed together leaving an intervening tab passage, thus forming the ends to a substantially semi-circular form with smooth intumed periphery, and with the overlapping portions permitting opening of the cover throughout the entire length to a width equal to the width of the tab passage for direct insertion and removal of a napkin and its tabs.

ELSIE K. NEWMAN.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,217,014	Knieriem	Feb. 20, 1917
1,975,457	Heyman	Oct. 2, 1934

FOREIGN PATENTS

Number	Country	Date
215,238	Switzerland	June 15, 1941
738,094	France	Oct. 11, 1932