Feb. 16, 1960 M. I. KLOGETHER 2,924,833

DRAW SHEET AND MATTRESS PROTECTOR

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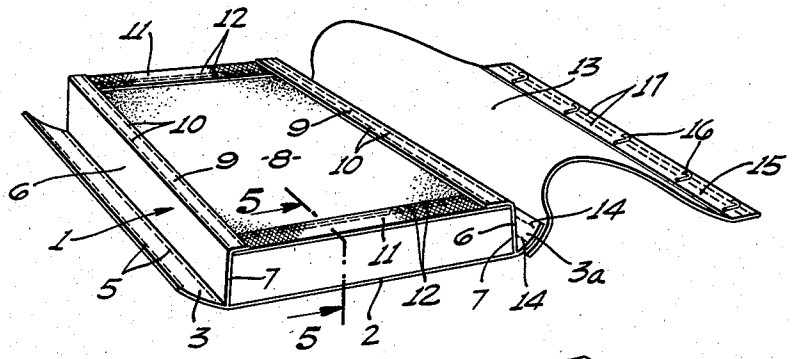


FIG. 1.

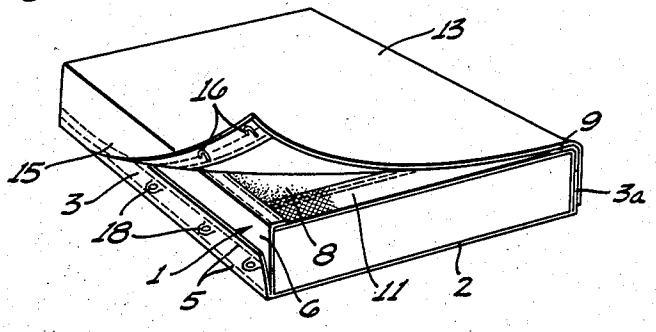


FIG. 2.

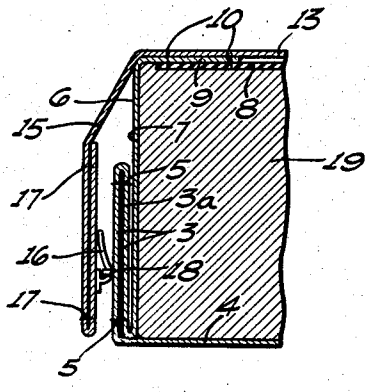


FIG. 4.

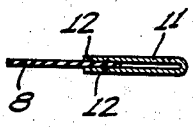


FIG. 5.

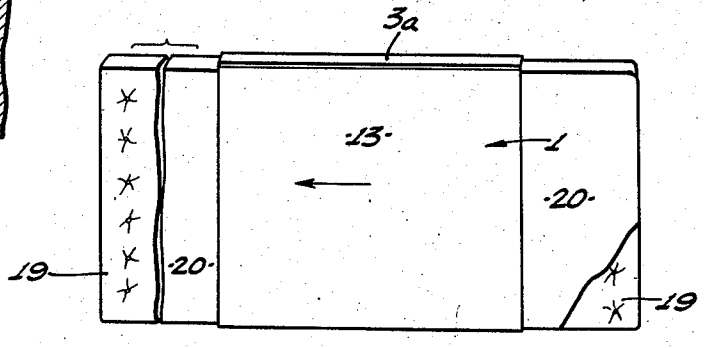


FIG. 3.

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DRAW SHEET AND MATTRESS PROTECTOR

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5 Claims. (Cl. 5—335)

This invention relates to a bed accessory for use on the beds of infants, children, aged persons, or others who are bedridden.

One of the objects of the invention is to provide means operating as a protection to the under sheet and the mattress from becoming soiled.

Another object of the invention is to produce a device for this purpose which is capable of being quickly applied around the mattress and held in place thereon, and including a waterproof portion adapted to cover a substantial area where soiling of the under sheet could occur. This portion of the accessory preferably includes the waterproof element, which of course, is located above the mattress and between it and the body of the occupant of the bed.

Further objects of the invention will become evident from a careful reading of this specification and study of the accompanying drawing.

The invention consists in the novel parts and combinations of parts to be described hereinafter, all of which contribute to produce an efficient combination draw sheet and mattress protector.

A preferred embodiment of the invention is described in the following specification, while the broad scope of the invention is pointed out in the appended claims.

In the drawing:

Figure 1 is a perspective of a mattress accessory embodying this invention, and showing the cover of sheet material disengaged at its edge and swung over into a position alongside the sleeve that forms the body of the accessory, and exposing to view the waterproof sheet referred to above.

Figure 2 is another perspective view of this accessory showing a side portion of the cover partially detached and held up as though to show the stitched connection between the waterproof element and the side and end portions of the sleeve that are stitched to the waterproof element.

Figure 3 is also a perspective showing the accessory applied to a mattress, or rather being applied to a mattress by slipping it over one end of the same from the right, portions of the mattress and under sheet being indicated as broken away.

Figure 4 is a vertical section on a greatly enlarged scale of the mattress and the adjacent portions of the accessory, and showing the means for effecting a detachable connection between the free edges of the cover sheet of the accessory and the double ply longitudinal flap that extends along the sides of the mattress and on the outer sides of the fabric side walls of the accessory.

Figure 5 is a vertical section in the plane of the line 5—5 of Figure 1, illustrating the arrangement of the bias strips that are attached to the transverse edges of the waterproof element.

In practicing this invention I form a sleeve 1 of suitable fabric. For this purpose I may use percale or any other material such as is employed in making usual bed sheetings.

While this sleeve 1 may be formed by wrapping the material composing it around a mattress, I prefer to produce it as a closed sleeve body that is applied by slipping it over the foot end of the mattress, and capable of fitting closely to the dimensions of the mattress with which it is to be used.

So, a piece of sheeting stock of a width equal to the length desired for the sleeve is selected. This piece should be long enough to provide material for a bottom portion 2 for the sleeve to lie against the under side of the mattress.

Near the lateral edge portions of this piece of material the material should be folded into several plies 3 that are to extend along the sides of the mattress near its under face 4 (see Figures 1 and 4).

The plies 3 are then united by lines of stitches, for example, two lines 5 of the stitches as shown in Figure 4. However, sufficient material should be left beyond the location of the stitched plies 3 to produce the side walls or extensions 6 that are to lie snugly against the side faces 7 of the mattress.

The upper edge portions 9 of the side extensions are then stitched to the edge portions of a waterproof sheet or panel 8. This is preferably accomplished by having the material wide enough to attach by longitudinal stitching 10 (as shown in Figures 1 and 4) to the waterproof panel 8, thereby giving a sleeve form to the accessory.

At the ends of the sleeve 1 transverse end strips 11 of bias fold percale or muslin are secured to the waterproof panel 8 by stitching 12. The bias material in the end strips 11 is preferably folded so as to permit them to yield diagonally and "give" so as to conform to the condition of the waterproof panel 8 and sleeve 1 when the same is in place on the mattress, permitting the accessory to conform to and encircle the mattress, and also prevent the possibility of tearing the accessory at the edges.

It is preferable to provide a cover 13 also composed of a fabric material, serving as what is usually referred to as a draw sheet.

The free edge portions 15 of the cover 13, and the outer sides of the folded plies or flaps 3 and 3*a* at the sides of the sleeve, are provided with means for fastening them together. Any type of fastener means may be employed for this purpose. In the present instance the fastener includes a plurality of independent spaced-apart fasteners, preferably hooks 16 on the inner side of the side portions of the cover. At this point the material is doubled back upon itself and hemmed and the two plies so formed are connected by two lines of stitches 17. The eyes are attached preferably on the outer sides of the flaps, in which case the hooks to cooperate with the eyes would be on the inside of the longitudinal hems of the side edges of the draw sheet, so that the bight of each hook can resist an upward pull on the side portion of the cover.

This construction is preferably used for both sides. The hooks 16 are received in eyes 18 attached to the outer side of the flaps 3 and 3*a* when they are folded back against the side portions 6 of the sleeve 1. These hooks and eyes are duplicated for the same purpose on the opposite or right side of the construction, the left side of which is shown in Figure 4.

In passing, regarding Figure 4, it should be said that the end portion 15 of the cover is drawn in a somewhat conventional position for the sake of clearness in reading this view. In practice, the cover 13 should be in slight tension after the hooks have been applied in the eyes.

Although it is not essential it is advantageous to have the waterproofing element of slightly resilient material so that it is in slight tension after the sleeve 1 has been

telescoped over the end of the mattress **19** and slid into place as indicated by the arrow in Figure 3.

The slight tension referred to facilitates the washing of the waterproof sheet while in place on the mattress.

The presence of the sleeve **1** around the mattress does not interfere with the drawing on or removal of the regular or conventional bed sheet **20** through the sleeve when the bed is being made up with clean sheets.

The fact that the waterproof panel **8** as well as the cover **13** are in slight tension prevents any possibility of wrinkling, causing discomfort to the bed's occupant.

Many other embodiments of this invention may be resorted to without departing from the spirit of the invention.

I claim as my invention and desire to secure by Letters Patent:

1. In a mattress accessory of the kind described, a sleeve composed of fabric, encircling the middle portion of the mattress; and having a body with a bottom extension passing transversely under the mattress, with side extensions extending upwardly adjacent the side walls of the mattress, said side extensions having portions connected therewith composed of several reinforcing plies of fabric material, the upper edges of said side extensions projecting upward and inwardly to overlie the side edges of the mattress, a waterproof sheet overlying the mattress, attached to said side extensions and lying on the upper face of the mattress, a cover of fabric, and a plurality of spaced-apart independent means for attaching the fabric cover to said flaps, and overlying said waterproof sheet.

2. In a mattress accessory for protecting a mattress and the regular under sheet of bed clothes from becoming soiled, comprising a fabric sleeve encircling the mattress and the undersheet of the bedding, said sleeve having a bottom surface portion extending under the mattress, with side extensions respectively at each side of the mattress, said side extensions having flaps disposed in adjacent plies with means for connecting said plies to each other, said sleeve and including side extensions lying against the side of the mattress and extending up at each side thereof, and a waterproof sheet, with means connecting it to the upper end portions of said side extensions, and lying across the upper face of the mattress; and a cover of fabric connected to said flaps at its ends and extending across the upper face of the waterproof sheet.

3. A mattress accessory for protecting an undersheet lying over a mattress, comprising a sleeve for encircling the mattress adjacent its middle portion, and having outer

side extensions constituting flaps attached to the lower part of the side portions of the sleeve, and lying at the sides of the mattress, said sleeve including a waterproof panel extending across the mattress above the same; and fabric means for covering the waterproof panel extending down at the side edges of the waterproof panel and including detachable fasteners for securing the last named means to the sides of the sleeve.

4. In a mattress protector accessory of the kind described, the combination of a closed sleeve encircling the mattress, said sleeve composed of fabric material and having a width enabling the same to envelop a portion only of limited area over the mattress confined to the middle portion thereof; said sleeve having a body with a bottom surface portion passing transversely under the mattress with outer side extensions extending up from the side edges of the bottom surface portion of the sleeve, and having inner extensions extending upwardly and lying against the side walls of the mattress, said outer side extensions having longitudinally extending portions constituting flaps connected to the lower portions of the inner side extensions, and composed of several plies of fabric material operating to reinforce and strengthen said flaps, a waterproof sheet with means connecting the same to the upper ends of said inner side extensions and lying on the upper face of the mattress; and a cover of fabric material overlying the waterproof sheet; and detachable fastening means for connecting the same to said reinforced flaps.

5. A mattress accessory according to claim 4, including cross strips of considerable width composed of bias material attached to the transverse edges of the waterproof sheet, and disposed in two plies between which the transverse edges of the waterproof sheet are secured, said bias material being so attached that the threads of the weave of the bias material extend diagonally with respect to the line of attachment to the waterproof sheet, thereby permitting the waterproof sheet to fit snugly to the surface of the mattress.

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