July 15, 1969 O. B. LUNDBERG 3,454,969

MATTRESS COVER

Filed March 6, 1967

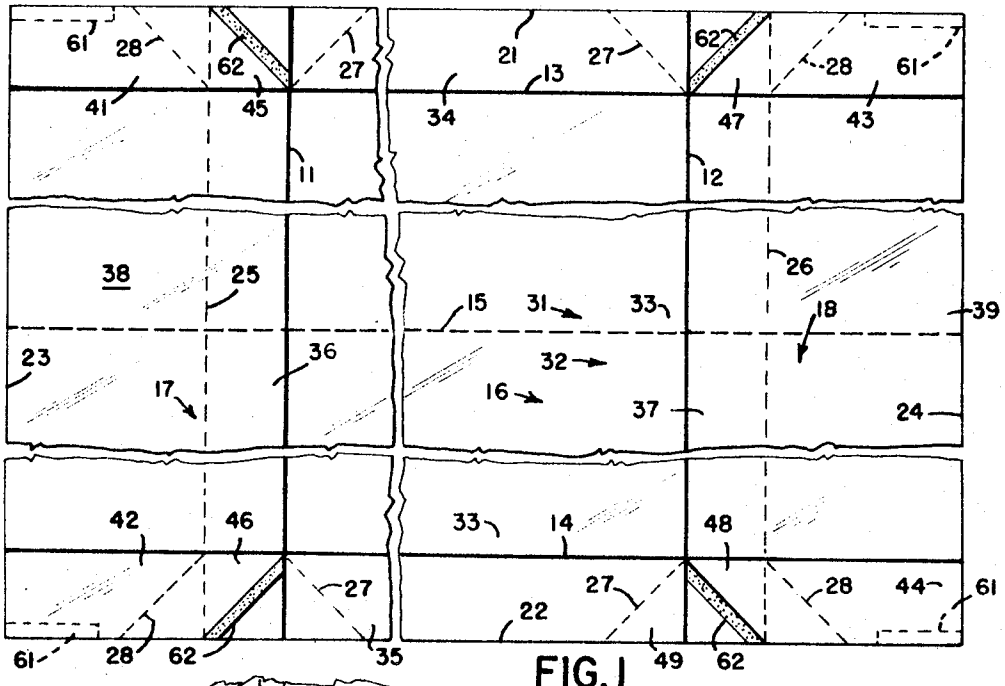


FIG. 1

FIG. 2

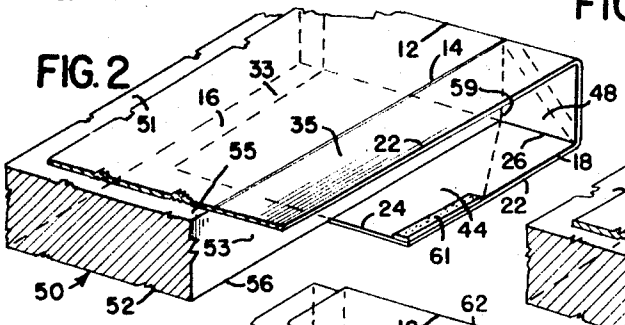


FIG. 3

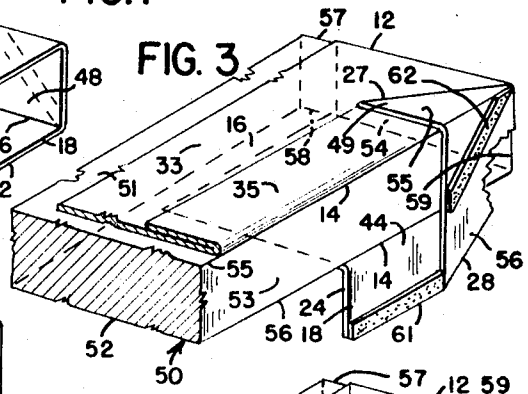


FIG. 5

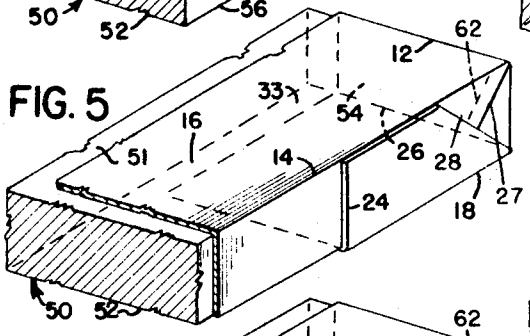


FIG. 4

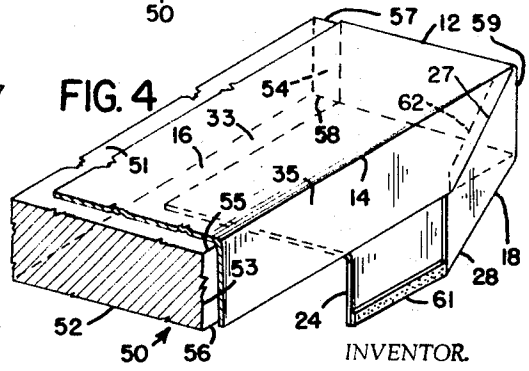
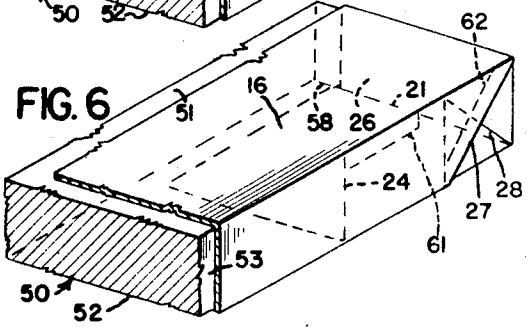


FIG. 6



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MATTRESS COVER

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U.S. Cl. 5—335 4 Claims

ABSTRACT OF THE DISCLOSURE

A disposable mattress cover adapted to be quickly and easily applied to the mattress of a hospital bed and which may be discarded when a new patient is admitted to occupy the bed. The cover is constructed from flexible plastic material such as cellophane and the blank is provided with printed lines indicating where the cover is to be placed on the mattress and where folds are to be made. The blank also has areas to which adhesive is applied and by means of which the sections of the blank may be attached to one another to encase the mattress.

In prior art devices cutting of the blank is required and the cost of the blank is great enough so that it becomes undesirable to dispose of the mattress cover after each use. The instant invention provides a construction in which the blank is simple in form and in which the same is folded and the areas to which the adhesive is applied are in position to hold the sections attached.

In the drawings:

FIG. 1 is a developed view of a blank from which the mattress cover is constructed.

FIG. 2 is a perspective view of a corner of a mattress with the blank placed thereon and illustrating the first step in applying the cover to the mattress.

FIG. 3 is a view similar to FIG. 2 showing the cover further folded and illustrating the second step in applying the cover to the mattress.

FIG. 4 is a view similar to FIG. 3, showing the cover still further folded and illustrating the third step in applying the cover to the mattress.

FIG. 5 is a view showing the mattress cover fully applied and the sections attached together for use.

FIG. 6 is a view similar to FIG. 5 of a modification of the invention in which the sections are arranged in different positions.

For the purpose of explaining the application of the invention to a mattress, a portion of a mattress **50** has been shown having a top **51**, a bottom **52** and side and end walls of which the side wall **53** and the end wall **54** are shown. The top, bottom side walls and end walls meet in elongated corners of which the corners **55**, **56**, **57**, **58** and **59** are illustrated.

The invention is constructed from a blank **10** illustrated in unfolded position in FIG. 1. This blank is rectangular in form and is provided with two transverse printed lines **11** and **12** which are located a distance apart equal to the length of the mattress and extend completely across the blank. The blank is further formed with two longitudinal printed lines **13** and **14** which are spaced apart a distance equal to the width of the mattress. In addition a longitudinal printed center line **15** is provided which together with lines **13** and **14** extend throughout the length of the blank.

By means of this construction a central section **16** is formed which is bounded by the transverse lines **11** and **12** and the longitudinal edges **21** and **22** of the blank. In addition two end sections **17** and **18** are formed which are bounded by the transverse lines **11** and **12**, the edges **21** and **22** and respectively by the transverse edges **23** and **24** of the blank. In addition the blank during the application

to the mattress is folded along fold lines **25**, **26**, **27** and **28** which naturally occur and which may be printed or not as desired.

The center line **15** divides the cover into two halves **31** and **32** extending on opposite sides of the cover throughout the length thereof and between said centerline and the longitudinal edges **21** and **22** respectively, the purpose of which will be presently described.

The various printed lines divide the central section **16** into a body **33** defined by printed lines **11**, **12**, **13** and **14** and of a width and length equal substantially to the width and length of the mattress. In addition two side flaps **34** and **35** are formed bounded by the printed lines **11**, **12**, **13** and the edge **21** and by the printed lines **11**, **12**, **14** and the edge **22** of the blank. Also two end flaps **36** and **37** are provided which are bounded by the printed lines **11**, **13** and **14** and a fold line **25** and by the printed lines, **12**, **13**, **14** and fold line **26**.

Outwardly of the body **33** and in the end sections **17** and **18** are provided laps **38** and **39** which are bounded by the printed lines **13**, **14**, and the fold lines **25** and the edge **23** of the blank and by the lines **13**, **14**, the fold line **26** and the edge **24**. Furthermore corner pieces **41**, **42**, **43** and **44** are formed at the corners of the blank disposed outwardly of the printed lines **13** and **14** and the fold lines **25** and **26**. Between the corner pieces **41**, **42**, **43** and **44** and flaps **34** and **35** are intervening pieces **45**, **46**, **47** and **48** bounded by the printed lines **11**, **12**, **13**, **14**, the fold lines **25**, **26** and the edges **21** and **22**, respectively.

On the underside of blank and at the extreme corners thereof are elongated areas **61** of adhesive with protecting cloth or the equivalent applied thereto and upon removal exposing the adhesive surface of the areas. These areas run along the longitudinal adges **21** and **22** of the blank and terminate at the transverse edges **23** and **24** thereof. In addition other similar areas **62** of adhesive run diagonally across the intervening pieces **45**, **46**, **47** and **48** from the intersections of the printed lines **11**, **12**, **13** and **14** to the intersections of the fold lines **25** and **26** with the edges **21** and **22**. These areas of adhesive are applied to the upper surface of the blank.

The method of using the invention is as follows:

When the cover is to be applied to an unoccupied bed, the bed clothing is removed and the blank placed face up on the mattress. The blank is then adjusted until the printed lines **11**, **12**, **13** and **14** coincide with the elongated upper end and side corners **55** and **57** of the mattress. The end sections **17** and **18** are then dropped down causing the end flaps **34** and **35** to overly the ends **54** of the mattress as shown in FIG. 2. The laps **17** and **18** and the corner pieces **41**, **42**, **43** and **44** are then folded along the lines **25** and **26** to cause the laps **38** and **39** to underlie the bottom **52** of the mattress at the foot and head thereof as shown in FIG. 2. The flap **35** is then folded back along the lines **14** and **27** and laid back upon the body **33** as shown in FIG. 3. This causes the corner piece **44** to drop down causing the same to fold along fold line **28**, bringing the two parts of said corner piece in overlying position to form two double-folds **55** and **56** as also shown in FIG. 3. The protective covering of the two areas of adhesive **61** and **62** are then removed. The side flap **35** is next folded downwardly along line **14** until the same overlies the side **53** of the mattress **50** and may be pressed against the areas of adhesive **62**. This area is so located that it engages the folded portion **49** along the line **27** and inwardly thereof as shown in FIG. 4. The corner piece **44** is now folded on line **14** in an upwardly direction until it overlies side flap **35**. Upon pressing said corner piece against said flap the area of adhesive **61** is caused to adhere to flap **35**, the parts taking the final positions shown in FIG. 5. The same

procedure is now carried out at the other corner on the same side of the mattress and the same procedure adopted on the other side of the mattress whereby the mattress becomes firmly encased in the cover.

Where the bed is being occupied while the cover is installed the occupant is shifted to one side of the bed and the cover placed in position with the half **32** on the accessible portion of the mattress and with the half **31** to be placed on the other side of the mattress gathered along the center line **15**. The cover is then installed on this side of the mattress as previously described. The patient is then shifted to the laid half **32** and the half **31** laid on the previously occupied position of the mattress. The blank is then folded as previously described and the bed clothes laid in the customary manner.

In FIG. 5 a slight modification of the invention is disclosed. In this form of the invention the areas of adhesive **61** and **62** are arranged on the opposite sides of the blank and the areas of adhesive **62** extend diagonally from the opposite corners of the intervening pieces **45**, **46**, **47** and **48**. In use the parts are arranged and folded in the same manner as previously described through steps **1** and **2** the parts being disposed as shown in FIG. 3. The corner piece **44** is then folded upwardly and attached to itself by means of the area of adhesive **62**. The flap **35** is then brought down and attached to the corner piece **44** by means of the area of adhesive **61**. The parts will then be arranged as shown in FIG. 6.

The advantages of the invention are manifest. The cover is exceedingly simple in construction and may be made in a single piece of material without waste. The cover is constructed with a body overlying the top of the mattress and with flaps extending downwardly therefrom and overlying the sides and ends of the mattress whereby the parts most easily soiled are protected. Laps are provided for insertion under the head and foot of the mattress thereby holding the cover securely attached to the mattress. The cover is constructed in one piece without slits or irregularities. The cover is marked to facilitate placing the cover on the mattress and to secure the folds in the proper places.

Having described the invention, what is claimed as new and desired to be protected by Letters Patent is:

1. A disposable mattress cover constructed from a one piece planiform rectangular blank of flexible material of greater width and length than the width and length of the mattress and foldable to provide:

(a) a central section and
(b) two end sections,
(c) said central section including
(d) a body conforming to the top of the mattress,
(e) two side flaps issuing from the sides of the body and overlying the sides of the mattress,
(f) said end sections including
(g) two end flaps issuing from the ends of the body and overlying the ends of the mattress,

(h) one of said end flaps having a lap issuing from the lower edge thereof and underlying the underside of the mattress,
(i) the denoted end section having corner pieces issuing from the sides of the lap and
(j) intervening pieces issuing from the ends of the adjoining side and end flaps and from the corner pieces,
(k) said side flaps being folded downwardly and
(l) said corner pieces being folded upwarly,
(m) said flaps and said corner pieces overlying one-another and
(n) fastening means for securing said flaps and corner pieces together.

2. A disposable mattress cover according to claim **1** in which:

(a) the side wall flaps are folded along diagonal lines issuing from the upper corners of the mattress and
(b) the corner pieces are folded along diagonal lines isuing from the bottom corners of the mattress and
(c) the lines of fold are disposed at the sides of the mattress and cross each other.

3. A disposable mattress cover according to claim **1** in which:

(a) the lap and corner pieces are of a width, measured lengthwise of the mattress greater than the thickness of the mattress to provide
(b) parts of the corner pieces extending beyond the intermediate pieces when the cover is completely folded and to which
(c) part of the fastening means is attached.

4. A disposable mattress cover according to claim **3** in which:

(a) the fastening means consists of elongated areas of adhesive disposed at the outer edges of the corner pieces on one side of the cover and engage the upper portions of the side flaps and
(b) the fastening means further consists of elongated areas of adhesive extending diagonally across the intermediate pieces and on the opposite side of the cover and engage the folded portions of the side flaps.

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