

Dec. 4, 1962

M. M. KINTNER
BEDDING RETAINING MEANS

3,066,321

Filed April 11, 1960

3 Sheets-Sheet 1

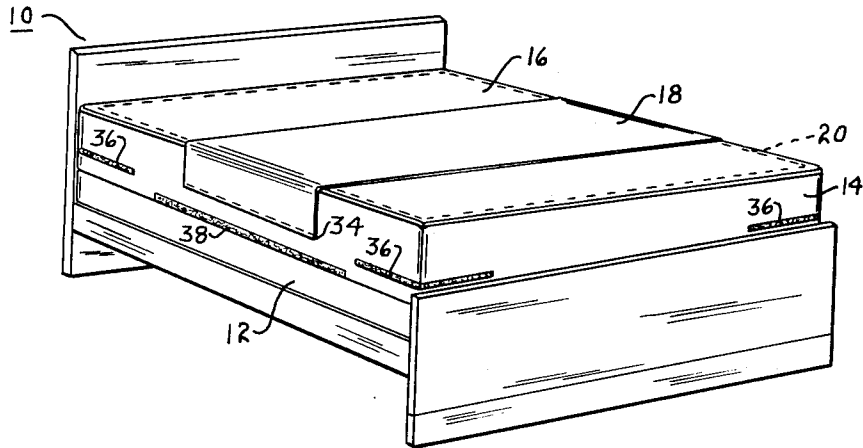


FIG. 1

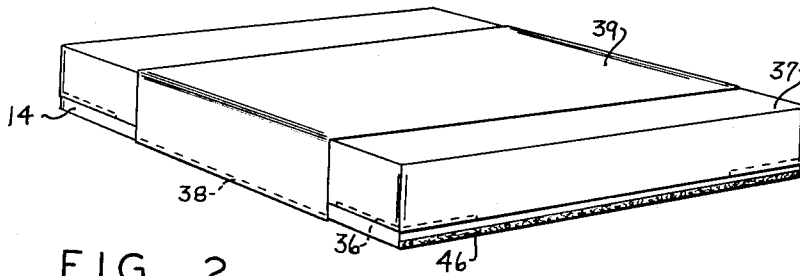


FIG. 2

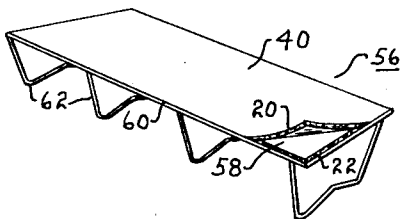


FIG. 7

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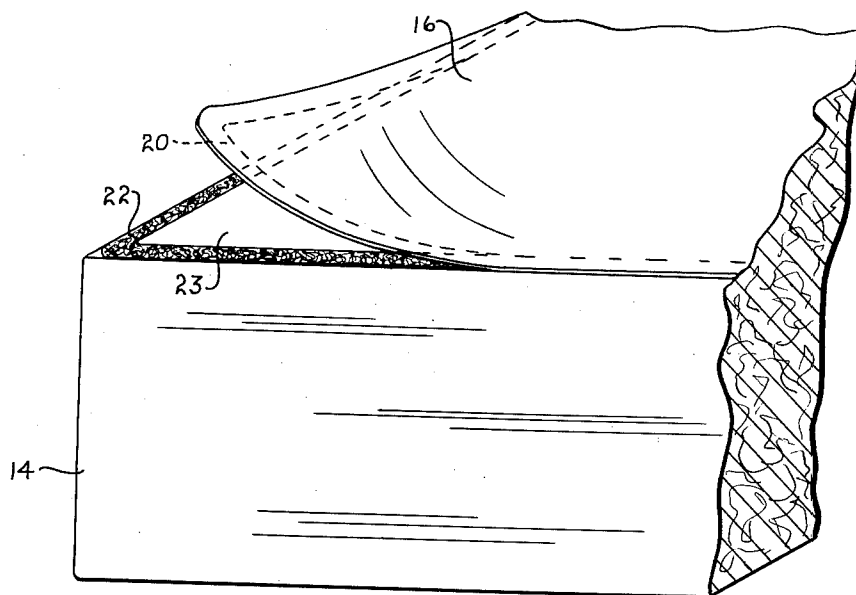


FIG. 3

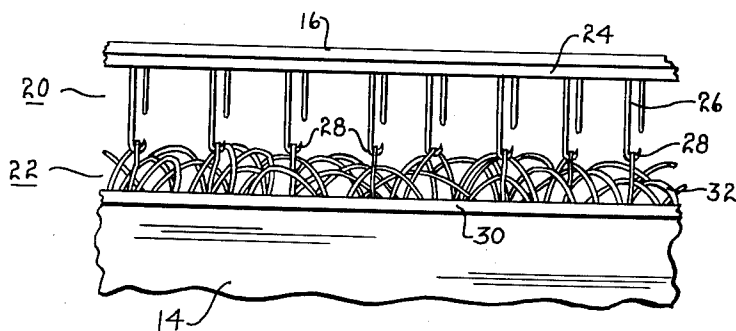


FIG. 4

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3 Sheets-Sheet 3

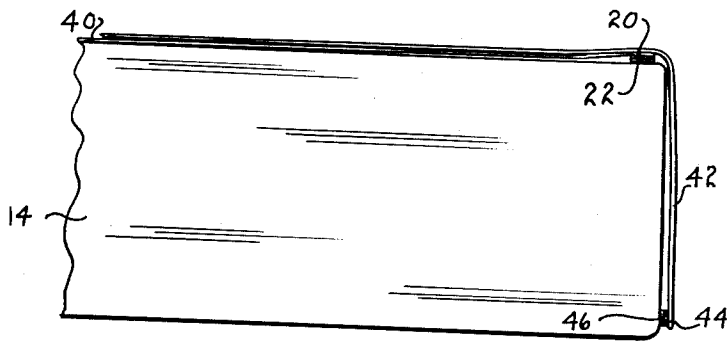


FIG. 5

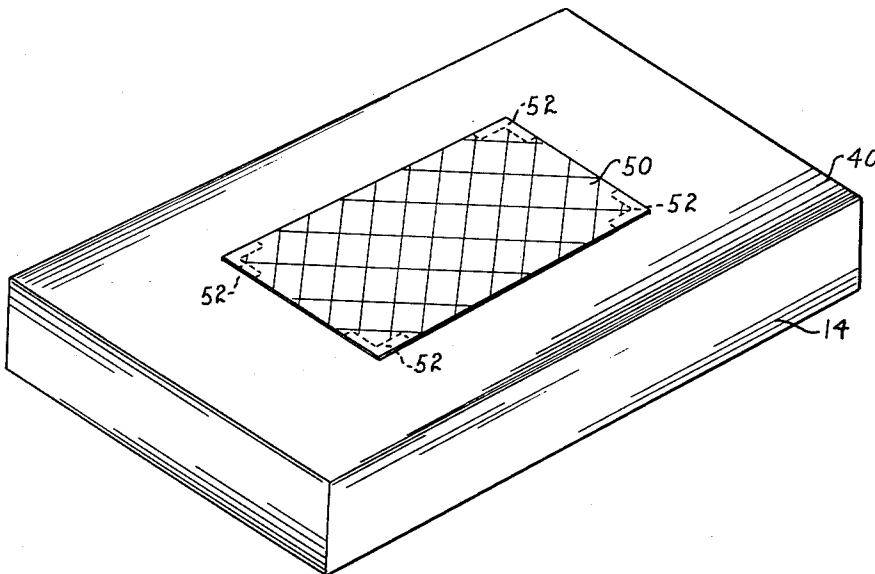


FIG. 6

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BEDDING RETAINING MEANS

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5 Claims. (Cl. 5-320)

This invention relates to bedding, and more particularly to a means for retaining bedding such as mattress pads, draw sheets, sheets and blankets to mattresses, day beds and the like.

In maintaining beds with mattress pads and sheets in a smooth and comfortable condition for sleeping, difficulty is often encountered in that the mattress pads often become wrinkled under the sheets, the sheets and blankets become loosened, and the beds consequently have to be completely torn apart in order to be remade each day. In the case of beds for children and invalids in which draw sheets are used, even more difficulty is encountered. It is therefore the principal object of the present invention to provide a means for retaining bedding in place which will make bed-making easier and maintain beds in a more comfortable condition.

Invalids' beds are often necessarily changed with the patient lying thereon, requiring the invalid to move from one side of the bed to the other as the bed is made first on one side and then the other. It is very difficult for the person making the bed, as well as uncomfortable for the patient, to tuck the sheets under the mattress under these conditions. Contour sheets do not overcome this difficulty, and there has heretofore been no way of avoiding tucking the draw sheets under the mattresses. This latter requires lifting the mattress at the middle of the bed where the weight of the patient is heaviest. It is therefore another object of the present invention to provide a means for making beds for invalids which eliminates lifting the mattress along the edges and tucking sheets, draw sheets and blankets under the mattress.

Baby cribs are usually made up with a mattress pad, a rubber sheet, a bottom sheet, and a small quilted pad covering that portion of the crib on which the baby will lie. Great difficulty is encountered in keeping all these layers of various sized bedding materials in place and smooth and comfortable for the baby. It is therefore a further object of the invention to provide a retaining means for maintaining cribs in comfortable condition for the baby and for making it easier to change the cribs.

Baby buggies are also made up as beds, with sheets and sometimes blankets covering the tightly fitting mattress in the bottom of the buggy. It is awkward to tuck in sheets and blankets around these tightly fitting mattresses, and since they are so small and the baby using them often does not lie still but rather squirms and wriggles, twisting the bedding and rendering it uncomfortable and possibly even dangerous, it is another object of the present invention to provide a means for retaining covers on baby buggies which makes maintaining them in sanitary and comfortable condition easier and less time-consuming.

Still another object of the present invention is to provide a bedding retaining means for beds such as youth beds having sides so close to the mattresses as to make tucking in sheets and blankets difficult, which will obviate the necessity of trying to insert the bedding between the sides of the bed and the mattress.

Cots present another problem in bed-making, since there is no substantial mattress which will retain tucked-under bedding. It is therefore a further object of my invention to provide a bedding retaining means which is suitable for use on cots, and other beds of this type, which does not require a separate mattress or pad to hold the bedding in place.

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Still another object of the invention is to provide a versatile bedding retaining means which is simple and inexpensive to construct, and which can be used on any kind of bed in combination with any kind of bedding, such as mattress pads, draw sheets, sheets and blankets.

A further object of the invention is to provide a bedding retaining means of the foregoing type which can be included in the manufacture of bedding or which can be easily added to conventional beds and bedding already in use.

Additional objects and advantages will become apparent from the following description and accompanying drawings, wherein:

FIGURE 1 is a perspective view of a bed showing my bedding retaining means in use with a mattress pad and a rubber draw sheet;

FIGURE 2 is a perspective view of a mattress showing my bedding retaining means used with a contour bottom sheet and a draw sheet;

FIGURE 3 is a fragmentary enlarged view of one corner of a mattress illustrating my bedding retaining means on the mattress and in a corresponding location on the bottom of the mattress pad;

FIGURE 4 is an enlarged fragmentary view of the type of material used in my bedding retaining means;

FIGURE 5 is a fragmentary view of the bottom end of a mattress showing top and bottom sheets attached by means of my bedding retaining means;

FIGURE 6 is an oblique view of a crib mattress showing the use of my bedding retaining means for holding the bottom sheet and a small quilted pad in place; and

FIGURE 7 is a perspective view of a cot showing my retaining means used for a sheet thereon.

Referring more specifically to the drawings, numeral 10 designates a conventional double bed having thereon a set of box springs 12 and a mattress 14; the basic construction of the springs and the internal construction of the mattress are conventional and well known and will not be described in detail herein. Both the mattress and springs are shown without covers, although conventional covers may be used on the springs without interfering with the present invention.

The present invention resides in the combination of a mattress and bedding material such as the mattress pad 16, and rubber sheet 18 removably held together by securing strips 20 and 22 attached to the bedding and mattress, respectively. As shown in FIGURES 1 and 3, one strip is attached to the margin of the upper surface 23 of the mattress and the other strip is attached to the margin of the underside of the mattress pad, the two strips being so constructed that the contacting surfaces thereof adhere firmly to one another when pressed together, thus retaining the pad, sheet or other type of bedding in place until it is intentionally removed from the bed. As shown in FIGURE 4, strip 20 consists of a strip of fabric 24 having plastic pile 26, the individual threads of which are resilient and flexible and are provided with a hook configuration 28 at the free ends, and strip 22 consists of a strip of fabric 30 having a felt-like material 32 of plastic threads on one side formed into complete loops or hooks which become interlocked with hooks 28 on strip 20 when the pile of strip 20 and the felt of strip 22 are pressed together. The two cooperating strips 20 and 22 are available on the market under the trademark Velcro and one form of this type of securing means, somewhat different however from the securing means disclosed in this application, is disclosed in U.S. Patent No. 2,717,437, issued to G. De Mestral. Other similar types of securing means may be used in place of the Velcro type if desired, provided the two opposing strips or parts 20 and 22 are capable of being laundered or otherwise cleaned and can

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be firmly secured together by merely placing the strips in face-to-face contact and then applying a moderate amount of pressure, and easily separated by merely pulling the two engaging surfaces apart. The particular type of securing means should also be of such a character that the two surfaces of strips 20 and 22 will not be easily damaged by repeated securing operations and will not readily adhere to other materials normally used as bedding material.

The embodiment of the invention shown in FIGURE 1 permits the mattress pad to be placed on the bed and secured in place by merely rubbing the hand over the top of the marginal portion of the pad after strips 20 and 22 have been placed together. Strip 20 or 22 is sewed or otherwise secured to the upper surface of the mattress and the other strip is secured to the margin of the mattress pad by sewing, or if desired, the pile of strip 20 and the felt-like structure of strip 22 can be secured directly to the fabric forming the pad and mattress without the use of the separate fabric backing strips 24 and 30. Instead of applying the strip 20 or 22 to the mattress, it can be applied to a mattress cover and after the cover has been properly applied to the mattress with the strips thereon positioned along the edge of the upper surface of the cover, the mattress pad or sheet can be secured in place thereon in the manner previously described.

Rubber draw sheet 18 is attached to the sides of the mattress by means of strips 20 and 22 as shown at 34. FIGURE 1 also shows securing strips 36 attached to the corners of the mattress sides for securing contour sheets 37, as shown in FIGURE 2. Strip 38 is used for holding a draw sheet 39 such as that used on hospital beds or beds for invalids. FIGURE 5 shows bottom sheet 40 the size and shape of mattress pad 16 shown in FIGURES 1 and 3, secured to the top of the mattress by means of strips 20 and 22 secured to the sheet and mattress, respectively. The advantage of using a bottom sheet of this type is that it is smaller and easier to handle and launder than the conventional full size sheet, and can be applied easily without tucking the edges under the mattress and with the bed against the wall. Top sheet 42 is attached only at the bottom of the foot of the mattress by strips 44 and 46. For small sized beds such as cribs, youth beds and single beds, strip 46 can be extended for some distance on both sides of the mattress, with corresponding strips 44 on the sheets. Blankets can be attached in the same manner, with strips in appropriate corresponding positions on the exterior of the mattress and underside of the blankets.

FIGURE 6 shows the use of my bedding retaining means on a baby's bed or crib. Bottom sheet 40 is attached to mattress 14 by means of strips 20 and 22, as shown in FIGURE 5, with other necessary bedding, such as rubber sheet and mattress pad, similarly secured under the bottom sheet, and small quilted pad 50 is held in position on sheet 40 by means of securing strips 52 at the corners of pad 50 and in corresponding position on sheet 40.

FIGURE 7 illustrates the use of my securing means on a conventional cot 56 with canvas bed portion 58, frame 60 and legs 62. Bottom sheet 40 is retained in place on canvas 58 by means of strips 20 and 22 secured by sewing, cementing or any other suitable means to sheet 40 and canvas 58, respectively.

From the illustrations given of the use of my bedding retaining means, it will be seen that applications for other types of bedding such as blankets can readily be made. Bedding can be retained on other types of beds than those described, such as day beds, baby buggies and the like. Further modifications and changes can be made without departing from the scope of the present invention.

In the claims, the term "sheet" is to be understood as meaning conventional sheets, mattress pads or draw sheets. The term "mattress" is to be understood as referring to conventional mattresses or other sleeping surfaces such as

the canvas portion of a cot, or the "mattress" in a baby buggy.

I claim:

1. In combination: a mattress having a top panel, head and foot end panels and side panels, a strip of material having numerous small securing means thereon in closely spaced relation and secured on the margin of said top panel around the entire periphery of the mattress, a strip of material secured to the foot end panel spaced from the upper edge thereof and having numerous small securing means thereon in closely spaced relation, a strip of material secured to each side panel near the lower edge thereof and having numerous small securing means thereon in closely spaced relation, a strip of material secured to each side panel above said first mentioned strip of material and having numerous small securing means thereon in closely spaced relation, a sheet substantially the same size as the top panel of said mattress, a strip of material round the margin on the underside thereof and having numerous small securing means thereon in closely spaced relation for engaging and adhering to the strips on the top panel of said mattress, a sheet extending downwardly over the sides and foot end of said mattress, and strips of material along the foot and longitudinal edge on the inwardly facing side thereof and having numerous small securing means thereon in closely spaced relation for engaging and adhering to the strip on the two side panels near the lower edge thereof.

2. In combination: a mattress having a top panel, head and foot end panels and side panels, a strip of material having numerous small securing means thereon in closely spaced relation and secured to the margin of said top panel around the entire periphery of the mattress, a strip of material secured to the foot end panel spaced from the upper edge thereof and having numerous small securing means thereon in closely spaced relation, a strip of material secured to each side panel near the lower edge thereof and having numerous small securing means thereon in closely spaced relation, a strip of material secured to each side panel above said first mentioned strip of material and having numerous small securing means thereon, a sheet substantially the same size as the top panel of said mattress, and a strip of material around the margin on the underside thereof and having numerous small securing means thereon in closely spaced relation for engaging and adhering to the strips on the top panel of said mattress.

3. In combination: a mattress having a top panel, head and foot end panels and side panels, a strip of material having numerous small loops on the top side thereof and secured on the margin of said top panel around the entire periphery of the mattress, a strip of material secured to the foot end panel spaced from the upper edge thereof and having numerous small loops on the external surface thereof, a strip of material secured to each side panel near the lower edge thereof and having numerous small loops on the external surface thereof, a strip of material secured to each side panel above said first mentioned strip of material and having numerous small loops on the external surface thereof, a sheet substantially the same size as the top panel of said mattress, a strip of material around the margin on the underside thereof and having numerous small hooks for engaging and adhering to the strips on the top panel of said mattress, a sheet extending downwardly over the sides of said mattress, and a strip of material along the longitudinal edge on the inwardly facing side thereof and having numerous small hooks on the external surface thereof for engaging and adhering to the strip on the two side panels near the lower edge thereof.

4. In combination: a mattress having a top panel, head and foot end panels and side panels, a strip of material having numerous small securing means thereon and secured on the margin of said top panel around the entire periphery of the mattress, a strip of material

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secured to the foot end panel spaced from the upper edge thereof and having numerous small hooks, a strip of material secured to each side panel near the lower edge thereof and having numerous small hooks on the external surface thereof, a strip of material secured to each side panel above said first mentioned strip of material and having numerous small hooks on the external surface thereof, a sheet substantially the same size as the top panel of said mattress, a strip of material around the margin on the underside thereof and having numerous small loops for engaging and adhering to the strips on the top panel of said mattress, a sheet extending downwardly over the sides of said mattress, and a strip of material along the longitudinal edges on the inwardly facing side thereof and having numerous small loops on the external surface thereof for engaging and adhering to the strip on the two side panels near the lower edge thereof.

5. In combination: a mattress having a top panel, head and foot end panels and side panels, a strip of material having numerous small securing means thereon and secured to the margin of said top panel around the entire periphery of the mattress, a strip of material secured to the foot end panel spaced from the upper edge thereof and having numerous small securing means, a strip of material secured to each side panel near the lower edge thereof and having numerous small securing means on the external surface thereof, a strip of material secured to each side panel above said first mentioned strip of material and having numerous small securing means on the external surface thereof, a sheet substantially the

6 same size as the top panel of said mattress, a strip of material around the margin on the underside thereof and having numerous small securing means for engaging and adhering to the strips on the top panel of said mattress, a sheet extending downwardly over the sides of said mattress, and a strip of material along the longitudinal edges on the inwardly facing side thereof and having numerous small securing means on the external surface thereof for engaging and adhering to the strip on the two side panels near the lower edge thereof, one of each of the two engaging securing means consisting of loops and the other of each of the two engaging securing means consisting of hooks.

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