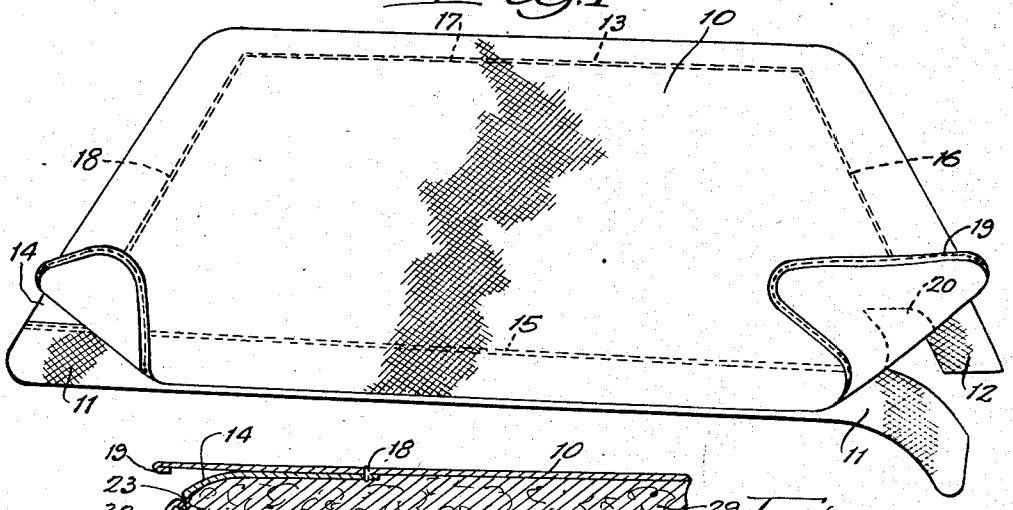
Nov. 28, 1944. H. BOWS ET AL 2,363,637

MATTRESS AND METHOD OF MAKING THE SAME

Filed Aug. 14, 1942

Fig. 1



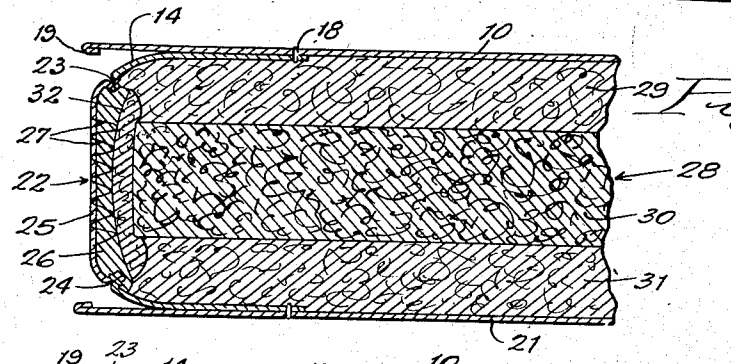


Fig. 2

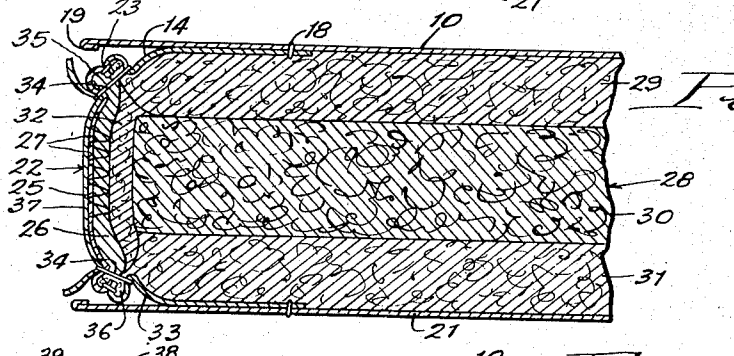


Fig. 3

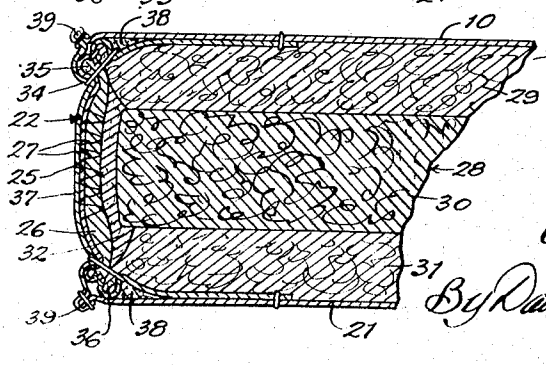


Fig. 4

Inventors:
Harry Bows and
Attilio Iannessa,
By Dawson, Owens and Booth,
Attorneys.

Patented Nov. 28, 1944 2,363,637

UNITED STATES PATENT OFFICE

2,363,637

MATTRESS AND METHOD OF MAKING THE SAME

Harry Bows, Los Angeles, and Attilio Iannessa, Inglewood, Calif., assignors to S. Karpen & Bros., Chicago, Ill., a corporation of Illinois

Application August 14, 1942, Serial No. 454,798

5 Claims. (Cl. 5—360)

This invention relates to a mattress and a method of making the same, and more particularly to an improvement in mattress structures of the type containing an edge roll disposed beneath the ticking or finish-fabric of the mattress.

An object of the invention is to provide increased sturdiness in a mattress structure embodying an inner edge roll disposed beneath the ticking. Another object is to provide a durable structure with improved shape-retaining qualities and with inner edge rolls. The improved construction is particularly suitable for mattresses having a solid filling material as distinguished from the inner spring construction.

Another object of the invention is to provide a mattress construction having an inner edge roll and using a relatively small quantity of fabric in the construction thereof.

Other features and advantages will appear from the following specification and drawing, in which—

Fig. 1 is a perspective view of a sheet of ticking or finish-fabric showing strips of fabric attached to the inner side thereof; Fig. 2 is a fragmentary sectional view of a mattress showing the first step in the construction; Fig. 3 is a similar fragmentary sectional view showing the construction after the edge rolls are formed; and Fig. 4 is a fragmentary sectional view showing the construction of the completed mattress.

The invention contemplates the construction of a mattress wherein a portion of the ticking or a sheet or strip secured to the ticking is used in forming an inner edge roll. The edge roll is thus secured directly to the ticking or outer finish-fabric of the mattress, and at the same time the quantity of fabric used in the mattress is maintained at a minimum.

In the embodiment of the invention described herein, the top sheet of ticking 10, which may be of any suitable or conventional fabric, is provided with a plurality of strips 11, 12, 13 and 14, of muslin or other suitable fabric, which are secured to the lower side of the sheet 10 adjacent to but spaced from the peripheral edge of the sheet. Preferably, as shown, the strips 11, 12, 13 and 14 are sewed to the underside of the sheet 10 along the lines 15, 16, 17 and 18 which are in the circumferential portion of the sheet 10 adjacent the peripheral edge thereof.

The sheet 10 is preferably rectangular in shape, as in conventional mattress construction, and may be equipped with a hem 19 along the peripheral edge thereof. The sheet 10, of course, may be of any desired shape, and the term "peripheral" as used in connection with this sheet is intended to refer to the edge of the sheet without regard to the shape or form of the sheet. Similarly, by referring to circumferential portions of the sheet adjacent the peripheral edge but spaced therefrom, the portions near the edge of the sheet, whether rectangular or circular in shape, are intended to be included.

The strips 11, 12, 13 and 14 are of a width slightly greater than the edge portions of the sheet 10 which overlie the strip so that the strips extend slightly beyond the peripheral edge of the sheet 10. If desired, the strips may be hemmed along their outer edges. The strips 11, 12, 13 and 14 may be secured to each other by sewing the same in order to form a circumferential flap depending from the underside of the sheet 10 and extending completely about the same.

In Fig. 1, the strips 11 and 12 are shown in separated relation as before attaching, but are attached to the sheet 10 along the line 20 and may then be attached to each other at their ends.

In forming the mattress, the sheet 10 may be used as the top ticking or finish-fabric sheet, and a similar sheet 21 may be used as the bottom ticking sheet. A border band 22 may be attached at its upper and lower edges to the sheets 10 and 21 respectively by stitching 23 and 24.

The border band may consist of a fabric sheet 25 to which padding or filling material 26 may be attached by stitches 27 to form a prebuilt border. Any suitable type of border band, however, may be used. The border band may extend completely about the mattress structure and may be secured at its upper and lower edges to the sheets 10 and 21 to form a boxing or casing 28, illustrated in Fig. 2.

In forming the boxing or casing 28, the border is left unattached to the sheets 10 and 21 at one side thereof in order to permit the introduction of filling material into the boxing or casing.

The filling material of any suitable type or character may be introduced into the boxing or casing 28. If a solid filling material is used, a plurality of pads of cotton, for example, may be introduced into the casing. These pads, indicated at 29, 30 and 31, may be introduced into the boxing 28 by a filling machine or in any other desired manner. A transverse pad 32 may extend about the casing immediately inside the border 22. If desired, the solid filling material of cotton, hair, or the like, may be used in connection with a conventional inner spring construction (not shown).

When the filling material has been introduced

into the casing, the casing is closed by completing the sewing of the border band 25 to the strips 14 and 33 of the sheets 10 and 21. Stitching 34 may then be passed through the corner portions of the construction to form edge rolls 35 and 36. At the same time, an outer border strip 37 may be applied to the border of the casing. The edge rolls, of course, may be formed in any suitable or desired manner.

After the edge rolls have been formed in the casing or boxing 28, additional filling material 38 may be placed about the portions of the strips 14 and 33 which are drawn inwardly in the formation of the edge rolls. The ticking sheets 10 and 21 may then be secured to the outer border strip 37 at the edges thereof, the attachment preferably being made by sewing strips of tape 39 to the ticking and the border strip at the junction thereof.

In the mattress construction which is thus formed, the edge rolls are disposed within the ticking, and a smooth outer surface is obtained. The attachment of the strips 14 and 33 to the ticking sheets 10 and 21 serves to secure the edge rolls in position with respect to the ticking sheets and provides a sturdy durable construction. At the same time, the use of a separate liner sheet in forming the inner casing with the inner edge rolls is avoided and the quantity of fabric material used in forming the mattresses thus minimized.

Although the invention has been described in connection with a particular embodiment, it will be apparent that many modifications and changes may be made without departing from the spirit and scope of the invention.

We claim:

1. A mattress comprising top and bottom sheets of fabric ticking, a strip of sheet material secured along a circumferential portion of each of the sheets of ticking, a border band secured at its upper and lower edges to said strips to form a boxing unit, filling material within said unit, means for forming the border band and the strips secured thereto into edge rolls at the corner portions of the unit, the peripheral portions of the sheets of ticking extending to at least a portion of said edge rolls, and means for securing the peripheral portions of the sheets in position over at least a portion of said edge rolls.

2. A mattress comprising top and bottom sheets of fabric ticking, each of said sheets having a strip member of fabric secured thereto along the inner side of a circumferential portion thereof adjacent to but spaced inwardly from the peripheral edge of the sheet, a border member extending about the edges of said sheets and secured at its upper and lower edges to the peripheral edge of the top and bottom strips, filling material within the unit formed by the top and bottom sheets, the strips carried thereby and the border member, and means forming the border member and the strip secured thereto into edge rolls at the corner portions of the unit, the peripheral portions of the sheets beyond the circumferential portions thereof to which the strips are attached being secured to one of said members and extending over the edge rolls.

3. A mattress comprising top and bottom sheets of fabric ticking, a strip member of fabric secured to the inner side of each of said sheets of ticking along a circumferential portion of the sheet adjacent to but spaced inwardly from the peripheral edge thereof, a fabric border member extending about the edges of said sheets and secured at its respective upper and lower edges to the peripheral edges of the top and bottom strips, a solid filling material within the unit formed by the top and bottom sheets, the strips carried thereby and the border member, stitching along the corner portions of the unit forming the same into edge rolls, and filling material above and below said edge rolls, the peripheral portions of the sheets beyond the circumferential portions thereof to which the strips are attached being secured to one of said members and extending over said edge rolls.

4. A mattress comprising top and bottom sheets of fabric ticking, a strip of fabric secured to each of the sheets of fabric ticking on the inner side thereof along a circumferential portion of the sheet adjacent to but spaced inwardly from the peripheral edge of the sheet, said strips extending completely around the sheets to which they are secured and extending peripherally outwardly from the circumferential portion of the adjacent sheet of ticking, a fabric border band extending about the edges of said sheets and secured at its respective upper and lower edges to the peripheral edges of the top strip and bottom strip, pads of filling material within the unit formed by the top and bottom sheets, the strips carried thereby and the border band, stitching forming edge rolls at the corner portions of the unit, filling material on the upper surface of the top edge roll and on the lower surface of the lower edge roll providing smooth upper and lower surfaces for the mattress, and stitching securing the peripheral edges of the top and bottom sheets respectively to the edge rolls at corner portions of the unit, said sheets enclosing the filling material on the edge rolls.

5. A mattress comprising top and bottom sheets of fabric ticking, each of said sheets having a strip of fabric secured thereto along the inner side of a circumferential portion thereof adjacent to but spaced inwardly from the peripheral edge of the sheet, a border member extending about the edges of said sheets and including an inner band and an outer band, the inner band being secured at its upper and lower edges to the peripheral edge of the top and bottom strips, filling material within the unit formed by the top and bottom sheets, the strips carried thereby and the border member, and means forming the border member and the strips secured thereto into edge rolls at the corner portions of the unit, the peripheral portions of the sheets, beyond the circumferential portions thereof to which the strips are attached, extending over the edge rolls and being secured to the outer band of the border member.

HARRY BOWS.
ATTILIO IANNESSA.