Dec. 27, 1932. O. M. BURTON ET AL 1,892,203

MATTRESS AND ITS MANUFACTURE

Filed Dec. 31, 1929

Fig 1

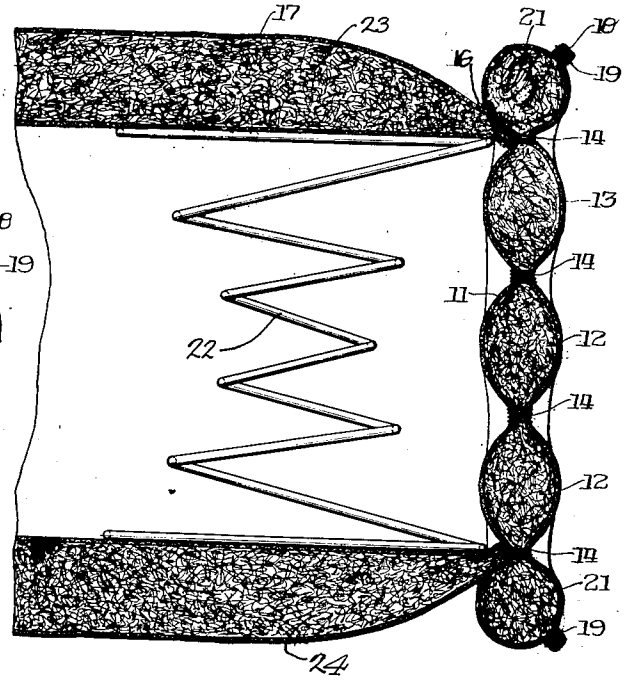



Fig 4.

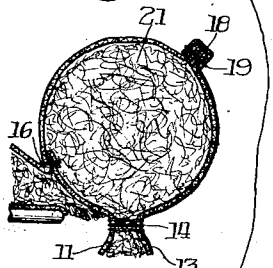



Fig 2

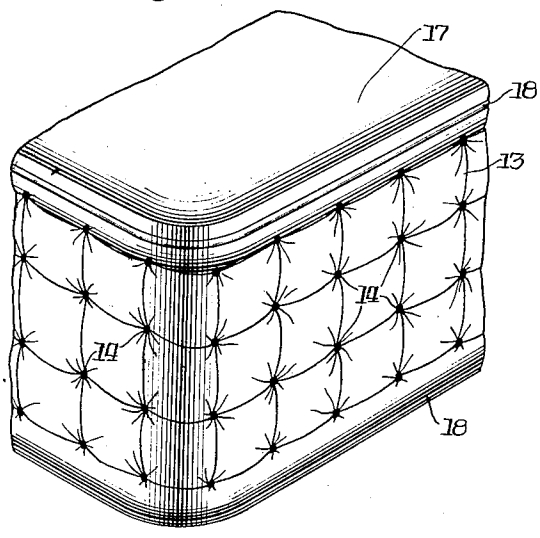
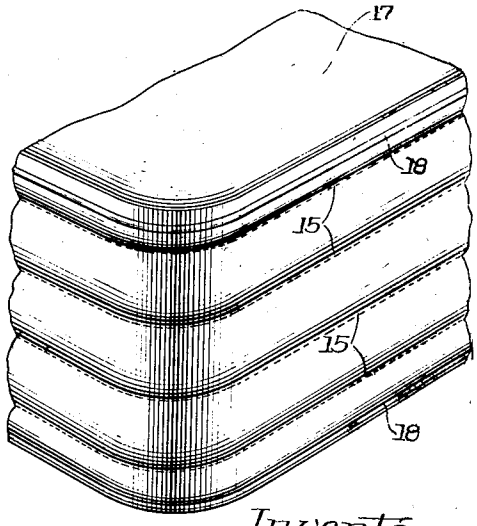



Fig 3




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# UNITED STATES PATENT OFFICE

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## MATTRESS AND ITS MANUFACTURE

Application filed December 31, 1929. Serial No. 417,792.

The present invention has relation to mattresses, cushions, etc., and concerns more specifically those structures of this generic type which are padded and have roll-edges.

One of the leading purposes or aims of the invention is the provision of a method of producing such constructions which results in a finished product having the required characteristics for giving satisfactory service and which will perform its functions in a highly efficient manner, low cost of production and relative ease of manufacture representing important elements in the fabrication of the mattress or the like, the final product itself also constituting part of the invention.

In general, the invention resides in the manner of combining and associating together the several parts of the construction, especially the fabrics and padding employed.

In the accompanying drawing, forming a part of this specification, a present, preferred embodiment of the invention has been illustrated in detail sufficiently and fully enough to enable those skilled in this art to understand it and to comprehend its several advantages, like reference numerals throughout the several views being used to designate the same parts or members.

In this drawing:—

Figure 1 is a fragmentary, vertical section through the edge portion of the mattress;

Figure 2 is a perspective view of a corner part of the mattress;

Figure 3 is a similar view of a slightly modified construction; and

Figure 4 is an enlarged cross-section through the roll-edge portion of the mattress.

In making such a mattress or cushion with a padded or quilted boxing around its sides or edges, such boxing is preferably, although not necessarily, produced in indefinite or indeterminate, relatively-long lengths and then so much thereof is cut off and used in the production of a single mattress as may be needed, such operation being repeated by severing suitable lengths of the boxing in succession for the manufacture of the corresponding number of mattresses.

The boxing or padded side or edge covering, is made of an inner fabric strip 11, padding or filling 12 and a preferably, but not necessarily, wider, outer fabric 13, the three specified elements being quilted together as by means of separate spaced tacks 14, as shown in Figure 2, or of horizontal lines of stitching 15, as depicted in Figure 3.

For strengthening purposes, the upper edge of fabric 11 is folded over upon itself and such double thickness is stitched at 16 to the inner side of the top fabric 17 of the ticking inwardly some distance from, and parallel to, its adjacent edge.

Thereupon, the outer free edge of the top fabric 17 and the upper free margin of the external fabric 13 of the boxing are folded over each upon itself, a tape 18 applied thereto, and all three parts 13, 17 and 18 stitched together at 19, the roll-edge covering thus formed or completed being filled with a padding or wadding 21 separate from the boxing padding 13 and fed progressively into place as the sewing 19 proceeds, or such roll-edge filling may constitute an extended part of the boxing padding 12 and the two fabric portions sewed around it while being taped.

In either case, it will be observed that the roll-edge casing is formed progressively as the stitching 19 proceeds, and such casing is filled with a padding as the casing is provided.

The roll-edge around the bottom of the mattress is produced or formed, in similar manner, in conjunction or combination with the fabric covering the under surface of the mattress.

The mattress casing having been thus made, its filling, composed of an appropriate spring-assembly 22 and its top and bottom padding 23 and 24, are introduced into such envelope at one end and then the mattress cover is closed in any approved manner, or, if preferred, the specified casing and its quilted boxing may be built around the spring-cushion in any convenient or efficient way.

From the foregoing it will be obvious that the finished mattress presents a pleasing appearance, that it has no objectionable or conspicuous seams, and that it can be produced at comparatively small cost.

Although two forms of mattress construction have been illustrated and described, these have been presented by way of example only, and those acquainted with this art will readily understand that changes may be made in such structures without departure from the principles of the invention as defined by the appended claims.

We claim:—

1. In a roll-edge mattress, the combination of a spring-assembly having upright spiral-springs, paddings for the top and bottom of said spring-assembly, fabrics covering said top and bottom assembly paddings, a padded boxing around the edge of the mattress including an inner fabric, an outer fabric, padding between said inner and outer fabrics, and means quilting said inner and outer boxing-fabrics through said boxing-padding and terminating inwardly from the longitudinal margins of said inner and outer boxing-fabrics practically in register with the top and bottom edges of said spring-assembly, means securing the edge portions of said inner boxing-fabric to the inner sides of said top and bottom cover-fabrics inwardly away from the margins of the latter, means securing the margins of said cover-fabrics and the corresponding margins of said outer boxing-fabric together forming roll-edge casings, and paddings in said roll-edge casings, whereby the propensity of said spring-assembly to expand tends to maintain said inner boxing-fabric taut and thus preserves the puffed effect of said outer boxing-fabric.

2. In a roll-edge mattress, the combination of a spring-assembly having upright spiral-springs, paddings for the top and bottom of said spring-assembly, fabrics covering said top and bottom assembly paddings, a padded boxing around the edge of the mattress including an inner fabric, an outer fabric, padding between said inner and outer fabrics, and means quilting said inner and outer boxing-fabrics through said boxing-padding and terminating inwardly from the longitudinal margins of said inner and outer boxing-fabrics practically in register with the top and bottom edges of said spring-assembly, means securing the edge portions of said inner boxing-fabric to the inner sides of said top and bottom cover-fabrics inwardly away from the margins of the latter, means securing the margins of said cover-fabrics and the corresponding margins of said outer boxing-fabric together forming roll-edge casings, and paddings separate from said boxing-padding in said roll-edge casings, whereby the propensity of said spring-assembly to expand tends to maintain said inner boxing-fabric taut and thus preserves the puffed effect of said outer boxing-fabric.

3. In the method of making a roll-edge mattress, quilting together an inner boxing-fabric, an outer boxing-fabric and intervening padding and terminating such quilting inwardly away from, and substantially parallel to, the longitudinal edges of said fabrics, stitching the free edge portions of said inner boxing-fabric to the inner sides of fabrics adapted to cover paddings over the top and bottom of a spring-assembly inwardly from the margins of said cover-fabrics, stitching together the margin of each cover-fabric to the corresponding margin of said outer boxing-fabric, thereby forming roll-edge casings, and filling said roll-edge casings as formed with padding.

4. In the method of making a roll-edge mattress, quilting together an inner boxing-fabric, an outer boxing-fabric and intervening padding and terminating such quilting inwardly away from, and substantially parallel to, the longitudinal edges of said fabrics, stitching the free edge portions of said inner boxing-fabric to the inner sides of fabrics adapted to cover paddings over the top and bottom of a spring-assembly inwardly from the margins of said cover-fabrics, stitching together the margin of each cover-fabric to the corresponding margin of said outer boxing-fabric, thereby forming roll-edge casings, and filling said roll-edge casings as formed with paddings separate from the boxing-padding.

In witness whereof we have hereunto set our hands.

OLIVER M. BURTON.
FRED R. ZIMMERMAN.