

July 29, 1924.

1,502,966

H. SCHIMMEL

MATTRESS

Filed June 18, 1923

2 Sheets-Sheet 1

Fig. 1

Fig. 7

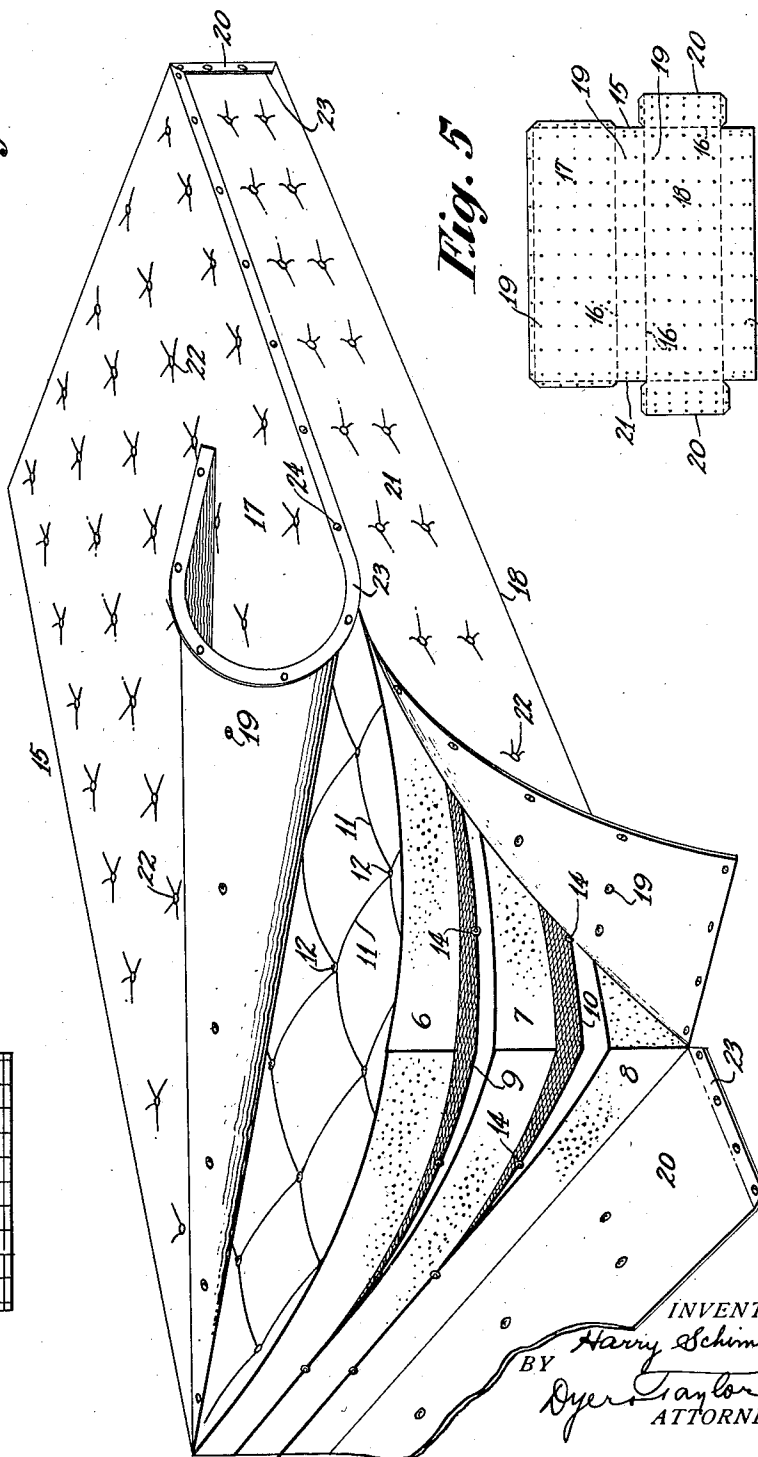
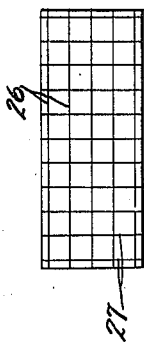
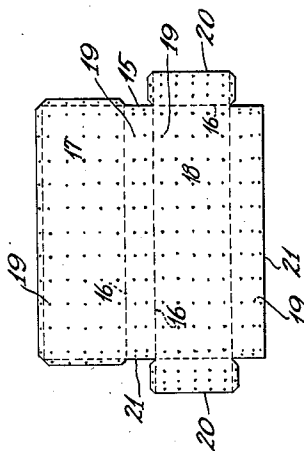


Fig. 5



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2 Sheets-Sheet 2

Fig. 2

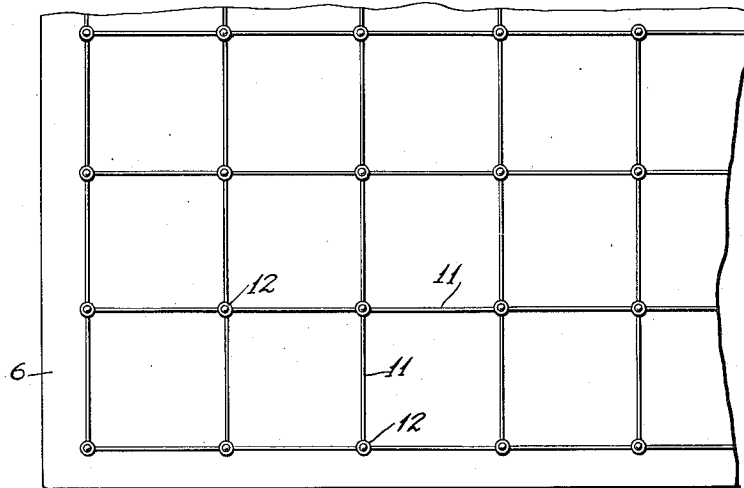


Fig. 6

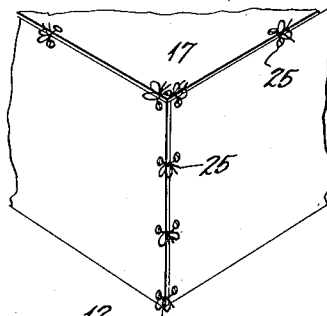


Fig. 3

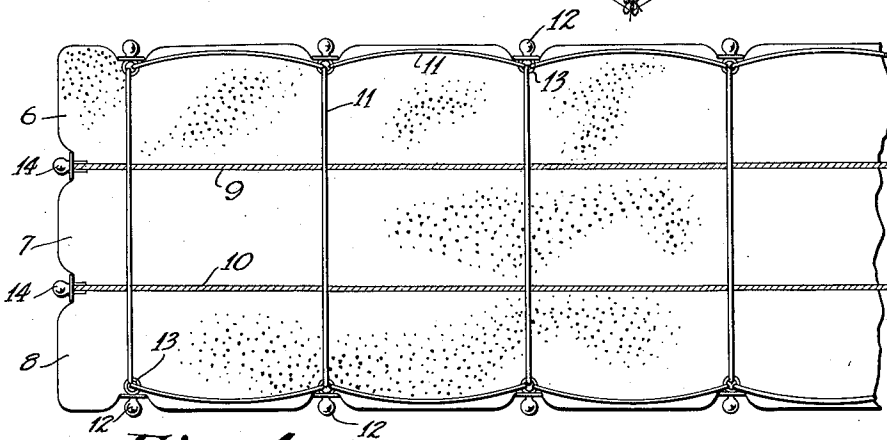
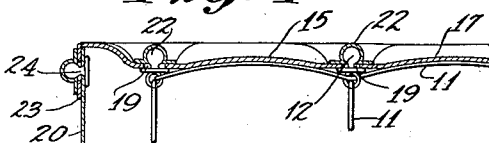


Fig. 4



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UNITED STATES PATENT OFFICE.

HARRY SCHIMMEL, OF NEW YORK, N. Y.

MATTRESS.

Application filed June 18, 1923. Serial No. 645,977.

To all whom it may concern:

Be it known that I, HARRY SCHIMMEL, a citizen of the United States, and a resident of the borough of Manhattan, city, county, and State of New York, have invented a certain new and useful Mattress, of which the following is a specification.

The invention relates to mattresses for beds, and particularly to such devices in which the stuffing is arranged in horizontal layers.

The objects of the invention are to provide an article of the class described having its layers well defined, and separated one from the other; in which the stuffing is formed into a pad which is maintained to form without the use of a tick or cover; having a tick or cover which may be opened for inspection of the stuffing, and removable from the stuffing pad for the purpose of airing and revivifying the stuffing and laundering the tick or bag, and which will be prevented from bulging whereby it will retain its box-like form and its surfaces will not sag, but will retain their flat shape.

These and further objects will more fully appear in the following specification and accompanying drawings considered together or separately.

One embodiment of the invention is illustrated in the accompanying drawings, in which like parts in all of the several figures are designated by corresponding characters of reference, and in which—

Fig. 1 is a perspective view of a mattress embodying the invention illustrating the tick or cover partly removed.

Fig. 2 is a top plan view of a portion of a mattress pad with the tick or cover removed.

Fig. 3 is a longitudinal sectional view of the same, on an enlarged scale.

Fig. 4 is a detail sectional view showing the tick or cover in position.

Fig. 5 is a plan view on a very much reduced scale showing the manner of forming the tick or cover in place.

Fig. 6 is a detail perspective view of another form of cover closure, and

Fig. 7 is a diagram of a modified form of layer separating device.

As shown in the drawings, the mattress pad comprises three layers 6, 7 and 8 of felt, for example. The layers are separated one from the other by means of sheets 9 and

10 of any suitable material. The layers and sneets are cut to approximately the same size.

The sheets and layers are quilted or tufted together to make a unitary structure. The threads 11 may be passed through the structure in the usual manner. The buttons or patches used in the tufting process are preferably the male members 12 of the usual spring snap buttons generally used for gloves. Each member 12 is provided with an eye 13 through which the thread passes, to draw the member into the surface of the structure. By this construction the mattress is held together in the form of a pad, and in shape without the help of the tick or cover.

At intervals the four edges of the sheets 9 and 10 are provided with fastening members 14 which may be the same as the members 12. The members 14 are secured to the sheets in any desired manner and project laterly therefrom.

The tick or cover 15 is preferably formed of a single piece of a suitable fabric cut to the form shown in Fig. 5, and may be folded along the dotted lines 16 to form the same into a box-like bag or casing.

The top 17 and bottom 18 of the tick are provided with a series of eyelets 19 in the same arrangement as to number and spacing as are the members 12, and the ends 20 and sides 21 of the tick are provided with similar eyelets 19 which register with the fastening members 14 whereby when the cover or tick is positioned around or over the mattress pad the members 12 and 14 will project through the eyelets. A female spring snap member 22 is then snapped over each member 12 and 14, and the tick is securely fastened to the pad or mattress proper.

The free edges of the tick are secured together in any suitable and desired manner to close the casing. In Figs. 1 and 4 the edges are provided with flaps 23 which are secured to the side and end members by means of the usual spring snap fastenings 24. In Fig. 6 the edges are secured together by means of tapes or cords 25 passing through eyelets in the elements. These fastening means are given as types, and applicant does not intend to limit himself to such securing means either as to the tufting, securing the sheets to the ends and sides of the tick, or the edges of the tick together.

Instead of using sheets such as 9 and 10 for separating the layers 6, 7 and 8, stout cords 26 may extend between the fastening members on the ends of the tick, and similar
5 cords or lines 27 may extend between fastening members on the sides of the tick. These cords or lines will, in effect, form sheets of wide mesh between the layers.

The tufting will prevent shifting of the
10 elements of the pad or mattress relatively to each other, and the fastenings between the pad and tick will prevent shifting of the tick relatively to the pad, and will prevent unevenness of the mattress.

15 The sheets, or the longitudinal and transverse cords, being firmly anchored to the side and end walls of the tick structure will prevent bulging of the mattress pad, and will restore the same to its box-like form
20 when the weight is removed from it.

The tick may be unfastened at a number of points whereby a purchaser may examine the stuffing, or the tick may be removed for the purpose of laundering, or for airing
25 or otherwise drying the mattress pad.

The term pad in this specification and claims refers to the material with which the tick or cover is filled.

30 Instead of employing eyelets 19 and separate snap fastening members 22 to secure the cover to the pad, the said members 22 may be secured to the cover as in the case of a glove or tobacco pouch or the like.

In accordance with the provisions of the
35 patent statutes, I have described the principle of my invention together with the apparatus which I now consider to represent the embodiment thereof, but it is desired to have it understood that the apparatus shown
40 is merely illustrative and that the invention may be carried out in other ways.

The invention having been described, what is claimed and desired to be secured by Letters Patent is:—

45 1. A mattress, comprising a pad, means for securing the material of the pad in the desired form, a tick or cover enclosing the pad, and means for securing the tick to the pad securing means.

50 2. A mattress, comprising a pad, means for securing the material of the pad in the desired form, a cover for the pad, and de-

tachable means for securing the cover to the pad securing means.

3. A mattress, comprising a pad, the ma- 55
terials of the pad being tufted together, a fastening member at the intersection of the tufting means, a cover for the pad, and a fastening member for engaging the cover
60 with the tuft fastening members.

4. In a mattress, a pad, said pad comprising layers of resilient material, means separating the layers, means for tufting the layers and separating means together, a
65 cover for the pad, and means other than those passing through the pad for securing the separating means to the cover.

5. In a mattress, a pad comprising a plurality of layers of resilient material, means separating the layers, means passing
70 through the layers and separating means for securing the same together, a box-like cover enclosing the pad, said cover being of the same configuration as the pad, and detachable means for securing the separating
75 means to the cover.

6. In a mattress, a pad comprising a plurality of flat layers of resilient material, a sheet like member of approximately the
80 same area as the major surface of the pad disposed between each adjacent surface of the layers, the said layers and sheet-like members being tufted together, a box-like covering for the pad, the top and bottom of
85 said cover being secured to the intersecting tufting means, the edges of the sheet-like members being secured to the sides and ends of the cover.

7. A mattress cover of box-like form and adapted to receive and enclose a tufted mat-
90 tress pad, and means carried by the cover whereby the same may be secured to the tufts.

8. A mattress cover of box-like form and adapted to receive and enclose a tufted mat-
95 tress pad, and means carried by the cover whereby the same may be removably secured to the tufts.

This specification signed and witnessed this fourteenth day of June, 1923.

HARRY SCHIMMEL.

Witnesses:

JOSEPH M. BING,
ARTHUR FRIEDMAN.