May 24, 1932. M. MARSACK 1,859,340

MATTRESS

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Fig. 1.

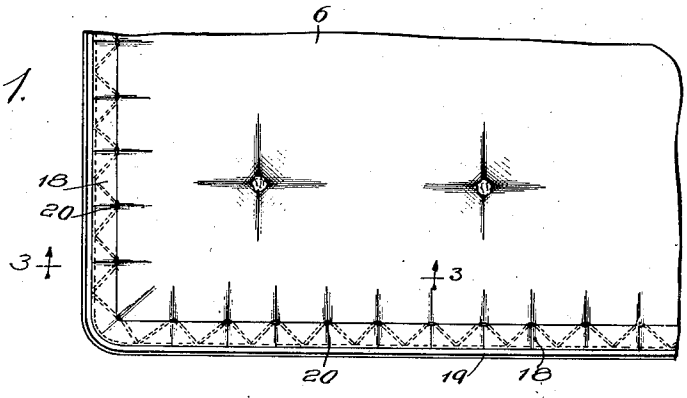


Fig. 2.

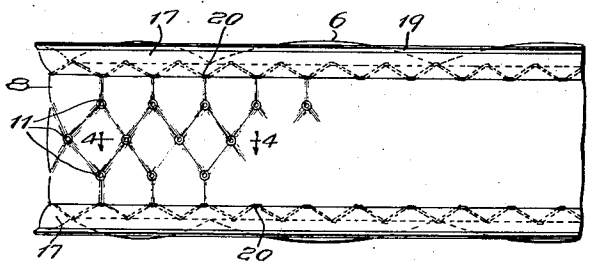


Fig. 3.

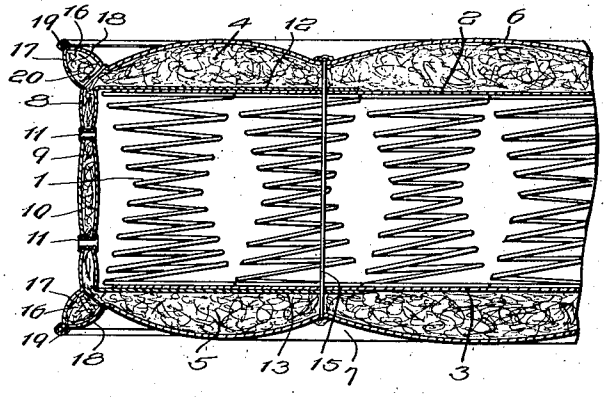
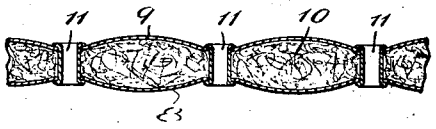


Fig. 4.



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MATTRESS

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Fig. 5.

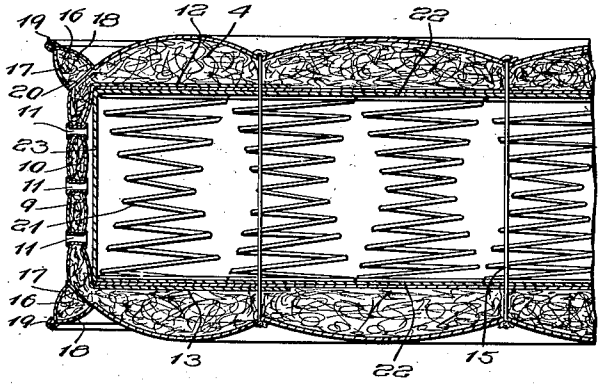


Fig. 6.

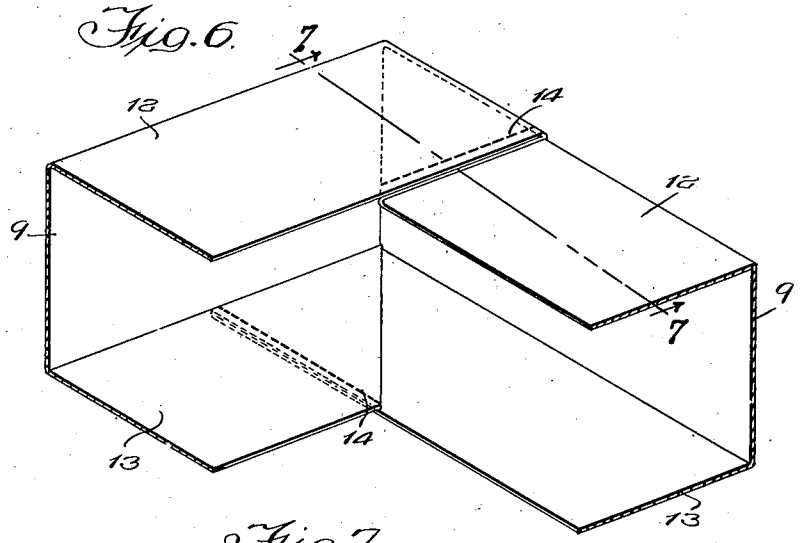
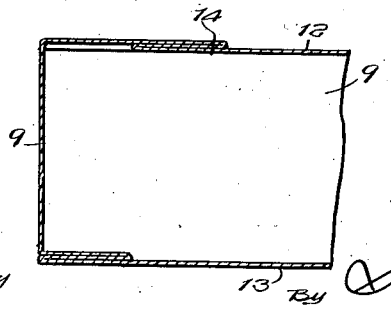


Fig. 7.



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UNITED STATES PATENT OFFICE

MAX MARSACK, OF SHEBOYGAN, WISCONSIN

MATTRESS

Application filed October 26, 1928. Serial No. 315,240.

My invention relates to mattresses and has among its objects the production of a mattress of the kind described which is comfortable, simple, durable, attractive in appearance, efficient and satisfactory. The mattress is of the type known as an inner spring mattress in which a suitable spring construction is enclosed within the mattress.

The invention has particularly as an object the production of a mattress that is constructed so that it will to a very large extent retain its original shape and attractive appearance even after long use, without in any way impairing or sacrificing the most desirable requirement of a mattress, to-wit, its comfort and rest giving qualities.

With the improved mattress herein described the inner springs are permitted their full play, resiliency and movement, unrestricted insofar as their intended action is concerned. It has as further objects the production of a mattress of the kind described in which the side boxing may be so made that flexing and buckling is reduced to a minimum when the mattress is carrying a load, and totally absent when the mattress is not occupied.

It has as a further object the production of a mattress having a quilted side boxing which is ornamental and distinctive in appearance, as well as effective to permit the passage of air into or out of the mattress, thereby preventing flexing or buckling of the boxing due to air pressure as in the case of a sealed boxing. It also has as an object the production of a side boxing affording a novel tufted effect not possible to secure with stitches extending across or lengthwise the boxing.

Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art from the disclosure herein given.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described and more particularly pointed out in the claim.

In the drawings, wherein like reference characters indicate like or corresponding parts:

Fig. 1 is a plan view of one corner of a mattress;

Fig. 2 is an edge elevation of the same;

Fig. 3 is a sectional view taken substantially on line 3—3 of Fig. 1;

Fig. 4 is a sectional view taken substantially on line 4—4 of Fig. 2, showing the quilting;

Fig. 5 is a sectional view similar to Fig. 3, illustrating a modified type of inner spring construction;

Fig. 6 is a perspective view illustrating the method of folding the edges of the inner ply 9 of the edge boxing; and

Fig. 7 is a sectional view taken substantially on line 7—7 of Fig. 6.

Referring to the drawings in which only two embodiments of the invention are shown, one type or form is illustrated in Fig. 3 and the other form to be hereinafter described is illustrated in Fig. 5. As shown, 1 represents a spring construction made up of the desired number and styles of springs, the particular construction in itself forming no part of the present invention. In some constructions the springs are uncovered or bare, while in others the same are entirely encased in a covering of canvass, burlap or the like. In other types of constructions, each coil is enclosed in a pocket and the several pockets secured together. Extended over the faces of the spring construction are cover sheets 2 and 3 of burlap, canvass or the like, 6 and 7 representing outer cover sheets of ticking or other suitable material between which and the respective sheets 2 and 3 is arranged filling 4 and 5 of cotton, hair, kapok, or any material commonly used or suitable for the purpose. The outer cover sheets 6 and 7 are made of a width and length greater than the width and length of the spring construction. Arranged about the edge of the mattress is a boxing which in the preferred construction consists of an outer ply 8, an inner ply 9, and filling material 10 arranged between the two, the inner and outer plies and filling being quilted or secured together by means of tubular eyelets 11 or their equivalent for

the purpose. The eyelets shown not only serve to quilt or secure the boxing together as a unitary structure, and ornament the boxing but also serve as air vents. As most clearly shown in Fig. 3, the inner ply 9 is considerably wider than the outer ply 8, so that it may be folded over and in as indicated at 12 at the two edges and overlie the inner sheets 2 and 3, the same being preferably of a size so that it will extend inwardly a substantial distance from the edges of the mattress. As most clearly shown at 14 in Fig. 6, the inwardly extending portions 12 may be stitched or tacked together at the corners. Ordinarily the edge portions extend inwardly a substantial distance. The mattress may be tufted in the usual manner as indicated at 15 by extending the usual tie entirely through and connecting the cover sheets or merely through the cover sheet filling and adjacent inner sheet at each side. It is immaterial whether or not the ties extend through the portions 12, this depending entirely on the length or width of portions 12, as well as the location of the tufting ties 15.

The edge portions 17 of the outer sheet are secured to the edge portions 18 of the cover sheets 6 and 7. The same may be hemmed or bound as indicated at 19 if so desired. It is preferred generally to form the mattress with rolls 16, and this is accomplished by stitching back and forth through the filling and the outer ply and cover sheet as indicated at 20.

The form of mattress shown in Fig. 5 is more or less similar except in this style the spring construction is made up of the desired number of springs 21 or their equivalents which are shown encased in the spring cover 22—23. In some cases spring constructions are sold with covering on, of canvass, burlap or the equivalent and this type of spring is illustrated in Fig. 5. Otherwise the mattress is the same as shown in the embodiment first described.

The present invention has many advantages over other constructions. The boxing may be made of substantial thickness, thereby adding stiffness to the same, and the inner and outer plies and filling may be secured together, leaving the plies slightly separated with the filling distending the same at substantially all points except where the eyelets 11 are positioned. The eyelets not only retain the boxing together, but provide for venting, which is very desirable in a mattress of this kind, and also they allow for the passage of air out or in so that the boxing is not pushed in and out or buckled when the mattress is in use. By putting the extending parts 12 on the boxing, this substantially connects the boxing to the filling and cover sheets so that when the mattress is occupied at a point inward from the edge there is a pull at this point on the boxing tending to maintain the same more nearly straight or under strain without outward or inward buckling.

In making up the mattress, one sheet 2 may be applied to the spring construction and thence the part 12 folded over the same and the filling applied and then the cover sheet 6. The mattress may then be turned over and the opposite side similarly assembled. The edges 17 and 18 may be then sewed together, after which the roll-forming stitches 20 are put in. The extending portions 12 maintain the boxing in place, thereby facilitating the sewing up of the cover and boxing and forming the roll edges. Obviously the depression of the mattress inwardly of the edges tends to maintain the boxing more or less taut, and prevent buckling between the rolls.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention, hence I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:

In a mattress, the combination of an inner structure comprising a plurality of vertical springs arranged in transverse and longitudinal rows, top and bottom tick portions, a quilted boxing comprising inner and outer plies of textile fabric and interposed filling material, said outer ply being connected with the marginal edges of said tick portions, said inner ply having wide marginal edges projecting under the ticking and covering a plurality of the adjacent rows of springs, said projecting marginal edges having their overlapping corner portions stitched together.

In testimony whereof, I have hereunto signed my name.

MAX MARSACK.