Feb. 4, 1930. E. E. EDWARDS 1,745,892

MATTRESS AND THE LIKE

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Fig. 1.

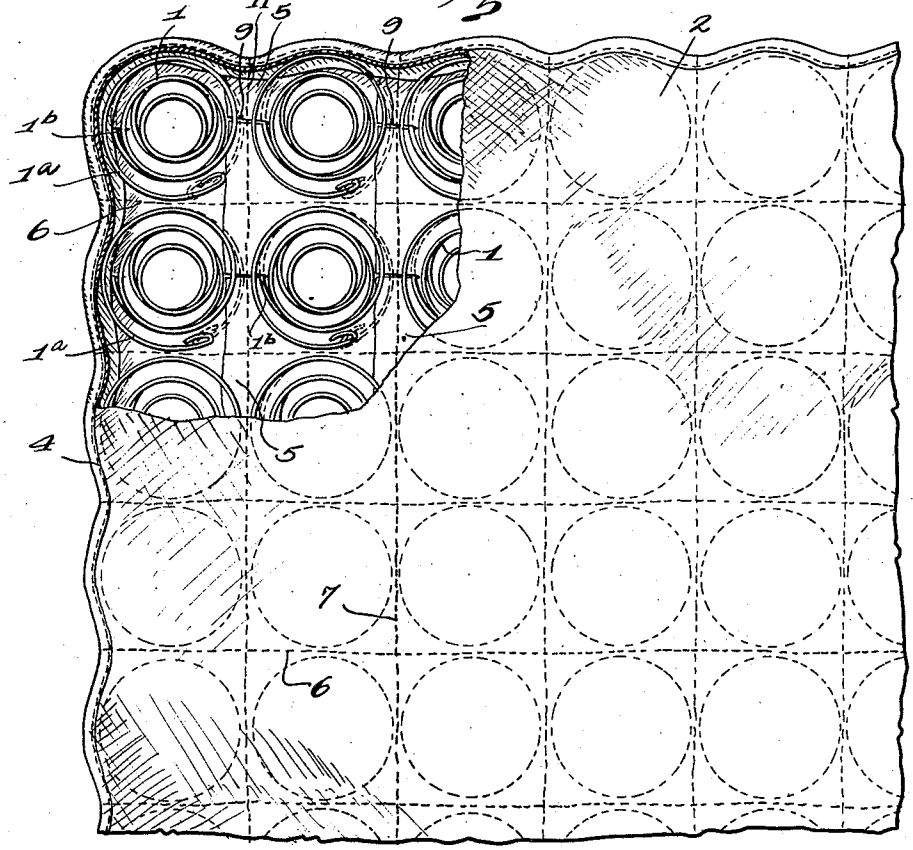
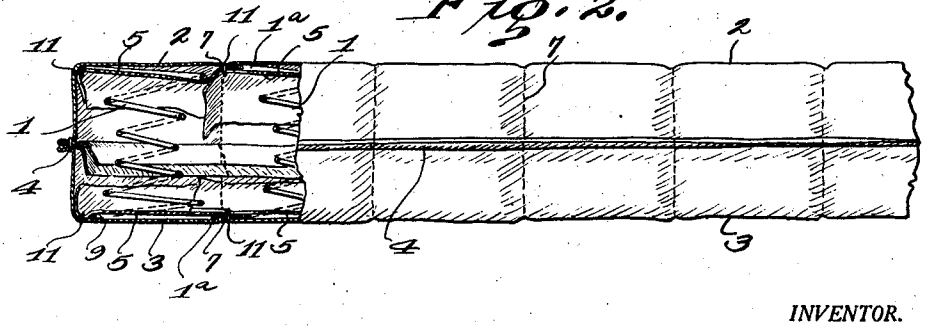


Fig. 2.



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Fig. 3.

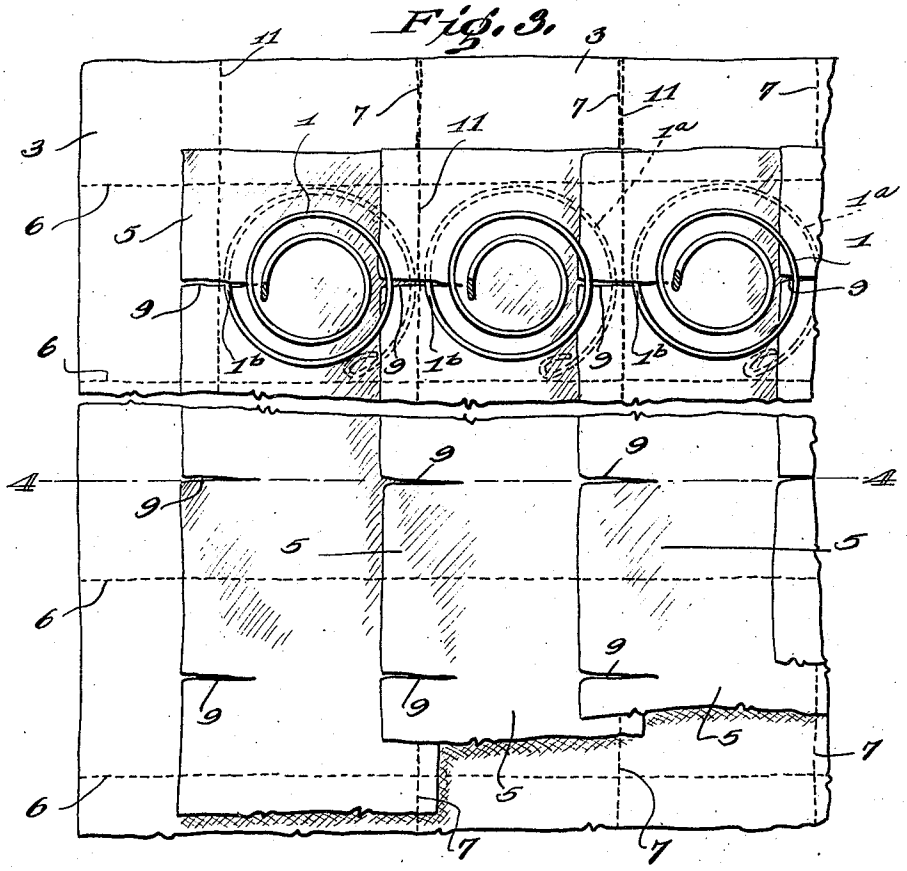


Fig. 4.



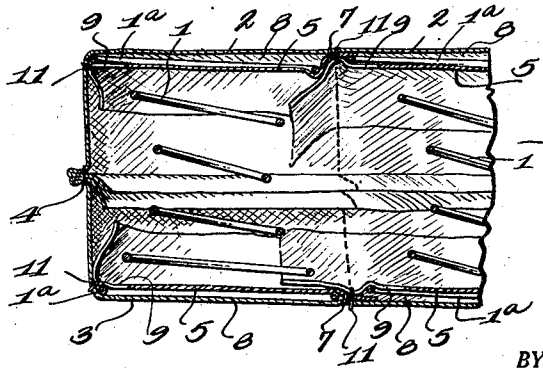


Fig. 5.

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UNITED STATES PATENT OFFICE

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MATTRESS AND THE LIKE

Application filed July 5, 1928. Serial No. 290,613.

This invention relates to improvements in mattresses and like structures of the type in which a series of coiled cushioning springs are employed.

The object of the invention is to provide an improved device of the character referred to which will be simple in construction, durable and efficient, in which the springs will be maintained in proper spaced relation, and which can be quickly assembled and produced at low cost.

A particularly important novel characteristic of the invention resides in the particular spring attaching means provided, which is of a simple efficient nature and provides for the easy quick assembling and securing of the springs in position.

The invention, with other objects and advantages thereof, and the particular construction, combination and arrangement of parts comprising the same, will be understood from the hereinafter contained detailed description, when considered in connection with the accompanying drawings forming part hereof and illustrating one embodiment of the invention.

In the drawings:

Figure 1 is a top plan view of a spring mattress constructed in accordance with the present invention, part of the upper sheet of the casing being broken away.

Figure 2 is a side elevation, a portion of the outer covering being broken away.

Figure 3 is a detail top plan view, on an enlarged scale, of one of the sheet members of the casing with springs inserted in some of the pockets thereof and the pockets closed, and showing some of the pockets unstitched and open at one side prior to the insertion of the end coils of the springs.

Figure 4 is a transverse section on the line 4—4 of Figure 3.

Figure 5 is a fragmentary detail vertical section, on an enlarged scale.

The invention comprehends improved spring attaching and holding means including an outer cover sheet and strips of fabric on the inner side thereof each secured thereto by transverse lines of stitching and by a longitudinal line of stitching along one side marginal portion thereof forming pockets adapted to receive end coils of the springs, the diameter of the pockets being in accordance with the diameter of the end coils of the springs and being open at one side. Each of said strips is provided at intervals between the transverse lines of stitching with slits extending inwardly from the edge of its unattached side marginal portion at the open side of the pockets, this construction providing for the insertion of end coils of the springs into the pockets by simple lateral bodily movement of the springs, the slits of the strips accommodating the portions of the springs adjoining the end coils in the lateral movement of the end coils into the pockets and after the same have been inserted therein. After the insertion of the end coils of the springs into the pockets, the unattached marginal side portion of each of the strips is secured by a longitudinal line of stitching to the cover sheet closing the pockets at that side.

While a specific embodiment of the invention is illustrated in the drawings, it will of course be understood that changes and variations may be made in the particular construction shown, and the invention may be embodied in other forms as will appeal to those skilled in the art and falling within the scope of the appended claims without departing from the spirit of the invention.

Referring to a detail description of the particular embodiment of the invention illustrated in the drawings, the mattress shown includes a series of coiled springs 1 and an outer covering or casing of strong fabric, such as the usual ticking, canvas, duck, or the like, said outer covering or casing comprising upper and lower sheets 2, 3, the mar-

ginal portions of which are brought together and secured by stitching 4, as shown.

On each of the upper and lower sheets 2, 3, at the inner side thereof is a series of strips 5 of strong fabric such as canvas, burlap, or equivalent material. The strips 5 of each of the sheets 2, 3, are arranged side by side in parallel relation and each of said strips is secured to the sheet at regular intervals by transverse lines of stitching 6, and by a longitudinal line of stitching 7 along one side marginal portion thereof, forming square shaped pockets 8 between the strips 5 and the sheets 2, 3, adapted to receive end coils 1^a of the springs 1. The pockets 8 thus formed are open at one side and each of the strips 5 is provided with slits 9 located substantially centrally of the transverse lines of stitching 6 and extending inwardly from the edge 10 of its unattached side marginal portion, this construction providing for the insertion of the end coils 1^a of the springs 1 into the pockets 8 by a simple lateral bodily movement of the springs 1 from the open side of the pockets, the slits 9, as will be understood, accommodating the portions 1^b of the springs 1, which adjoin the end coils 1^a, in the bodily movement of the springs laterally of the pockets 8 in the insertion of the end coils 1^a into the pockets 8 and after the same are in position within the pockets 8. After the insertion of the end coils 1^a of the springs 1 within the pockets 8, the unattached side marginal portion of each of the strips 5 is secured to the sheet by a longitudinal line of stitching 11 to close the pockets 8 at that side.

The transverse lines of stitching 6 and the longitudinal lines of stitching 7 and 11, are spaced as shown, the diameter of the pockets 8 being in conformity with the diameter of the end coils 1^a to provide for the easy insertion of the same in normal condition into the pockets and so that each of the end coils 1^a of the springs 1 engage the peripheral walls of one of the pockets and is held against laterial movement in the pocket.

In assembling the mattress, as will be understood, end coils 1^a of the springs 1 are first inserted and secured in the pockets 8 of one of the sheets 2, 3. The opposite end coils 1^a are then inserted and secured in the pockets 8 of the other one of the sheets 2, 3, after which the marginal portions of said sheets are secured together.

In the particular construction shown, the series of strips 5 of each of the sheets 2, 3, are shown arranged with marginal side portions of adjacent strips in overlapping relation. This particular construction not only provides for a relatively close association of the coiled springs 1 but also, as will be appreciated, affords a strongly reinforced construction.

It will be noted that by the particular construction and arrangement of parts hereinbefore described, means of a simple efficient nature is afforded for maintaining the springs in proper position relatively to each other, and which provides for the easy, rapid assembly of the springs by a simple, lateral, bodily movement of the springs in normal condition relatively to the pockets, the resulting structure being of a durable, satisfactory, inexpensive nature.

What I claim is:

1. In a spring mattress or the like, means for holding the springs in position including a cover sheet of fabric, and strips of fabric on the inner side of said cover sheet each secured thereto at intervals by transverse lines of stitching and by a longitudinal line of stitching along one side marginal portion thereof forming pockets to receive end coils of the springs, said pockets being open at one side for the insertion of the end coils laterally within the same, each of said strips being provided at intervals between the transverse lines of stitching with slits extending inwardly from the edge of its unattached side marginal portion to accommodate the portions of the springs adjoining the end coils in the insertion of the end coils into the pockets.

2. In a spring mattress or the like, holding means for the springs including a cover sheet of fabric and strips of fabric secured to the inner side of the cover sheet in parallel relation, each of said strips being secured to the cover sheet at intervals by transverse lines of stitching and by a longitudinal line of stitching along one side marginal portion thereof forming pockets to receive end coils of the springs, said pockets being open at one side for the insertion of the end coils laterally within the same, and each of said strips being provided at intervals between the transverse lines of stitching with slits extending inwardly from the edge of its unattached side marginal portion to accommodate the portions of the springs adjoining the end coils in the insertion of the end coils into the pockets.

3. In a spring mattress or the like, holding means for the springs including a cover sheet of fabric and strips of fabric secured to the inner side of the cover sheet in parallel relation with marginal portions of adjoining strips overlapping one another, each of said strips being secured to the cover sheet at intervals by transverse lines of stitching and by a longitudinal line of stitching along one side marginal portion thereof forming pockets to receive end coils of the springs, said pockets being open at one side for the insertion of the end coils laterally within the same, and each of said strips being provided at intervals between the transverse lines of stitching with slits extending inwardly from the edge of its unattached side marginal portion to accommodate the portions of the

springs adjoining the end coils in the insertion of the end coils into the pockets.

4. In a device of the class described, a series of coiled springs, a casing for the springs comprising upper and lower sheets of fabric, and holding means for the springs including strips of fabric on the inner side of the upper sheet, and strips of fabric on the inner side of the lower sheet, each of the strips of fabric of each of said sheets being secured thereto at intervals by transverse lines of stitching and by a longitudinal line of stitching along one side marginal portion thereof forming pockets to receive end coils of the springs open at one side for the insertion of the end coils laterally within the same, each of said strips being provided at intervals between the transverse lines of stitching with slits extending inwardly from the edge of its unattached side marginal portion to accommodate the portions of the springs adjoining the end coils in the insertion of the end coils into the pockets.

5. In a spring mattress or the like, means for holding the springs in position including a cover sheet of fabric and strips of fabric on the inner side of said cover sheet each secured thereto at intervals by transverse lines of stitching and by longitudinal lines of stitching along the side marginal portions thereof forming pockets receiving end coils of the springs, each of said strips being provided at intervals between the tranverse lines of stitching with slits extending inwardly from one side edge thereof, said slits accommodating the portions of the springs directly adjoining the end coils.

6. The method of attaching springs to a cover sheet of a mattress or the like, consisting in securing strips of fabric at intervals along the same by transverse lines of stitching and by a longitudinal line of stitching along one side marginal portion thereof to the inner side of the cover sheet to form pockets open at one side for the insertion of end coils of the springs laterally within the same; providing each of said strips at intervals between the transverse lines of stitching with slits extending inwardly from the edge of its unattached side marginal portion; inserting the end coils of the springs laterally within the pockets from the open side thereof with the portions of the springs directly adjoining the end coils entering the said slits, and then securing the unattached side marginal portions of the strips to the cover sheet to close the said pockets at that side.

7. In a spring mattress or the like, means for holding the springs in position including a cover sheet of fabric, and strips of fabric on the inner side of said cover sheet each secured thereto at intervals by transverse lines of stitching and by a longitudinal line of stitching along one side marginal portion thereof forming pockets to receive end coils of the springs, said pockets being open at one side for the insertion of the end coils laterally within the same, each of said strips being provided at intervals between the transverse lines of stitching with slits extending inwardly from the edge of its unattached side marginal portion, end coils of springs arranged in said pockets with the portions of the springs directly adjoining the end coils extending through the slits of the strips, and means for securing the slitted side marginal portion of the strips to the cover sheet to close the pockets at that side.

8. In a spring mattress or the like, means for holding the springs in position including a cover sheet of fabric and a strip of fabric on the inner side of said cover sheet secured thereto at intervals by transverse lines of stitching and by a longitudinal line of stitching along the side marginal portions thereof, forming pockets receiving end coils of the springs, said strip being provided at intervals between the transverse lines of stitching with slits extending inwardly from one edge thereof, said slits accommodating the portions of the springs directly adjoining the end coils.

9. In a spring mattress or the like, means for holding the springs in position including a cover sheet of fabric, and strips of fabric on the inner side of the cover sheet arranged in parallel relation, each of said strips being secured to the cover sheet at intervals by transverse lines of stitching and by longitudinal lines of stitching along the side marginal portions thereof, forming pockets receiving end coils of the springs, and each of said strips being provided at intervals between the transverse lines of stitching with slits extending inwardly from one side edge thereof, said slits accommodating portions of the springs directly adjoining end coils thereof.

10. In a spring mattress or the like, means for holding the springs in position including a cover sheet of fabric, and strips of fabric on the inner side of the cover sheet arranged in parallel relation with marginal side portions of adjoining strips overlapping one another, each of said strips being secured to the cover sheet at intervals by transverse lines of stitching and by longitudinal lines of stitching along the side marginal portions thereof, forming pockets receiving end coils of the springs, and each of said strips being provided at intervals between the transverse lines of stitching with slits extending inwardly from one side edge thereof, said slits accommodating portions of the springs directly adjoining end coils thereof.

11. In a device of the class described, a series of coiled springs, a casing for the springs comprising upper and lower sheets of fabric, and means for holding the springs in position including strips of fabric on the inner side of the upper sheet, and strips of fabric on the inner side of the lower sheet, each

of the strips of fabric of each of said sheets being secured thereto at intervals by transverse lines of stitching and by longitudinal lines of stitching along the side marginal portions thereof, forming pockets receiving end coils of the springs, each of said strips being provided at intervals between the transverse lines of stitching with slits extending inwardly from one side edge thereof, said slits accommodating portions of the springs directly adjoining end coils thereof.

In testimony whereof I hereunto affix my signature.

EARL E. EDWARDS.