Sept. 11, 1928. 1,684,234

M. LIPPS

SPRING CUSHION CONSTRUCTION

Original Filed Aug. 2, 1924

Fig. 1.

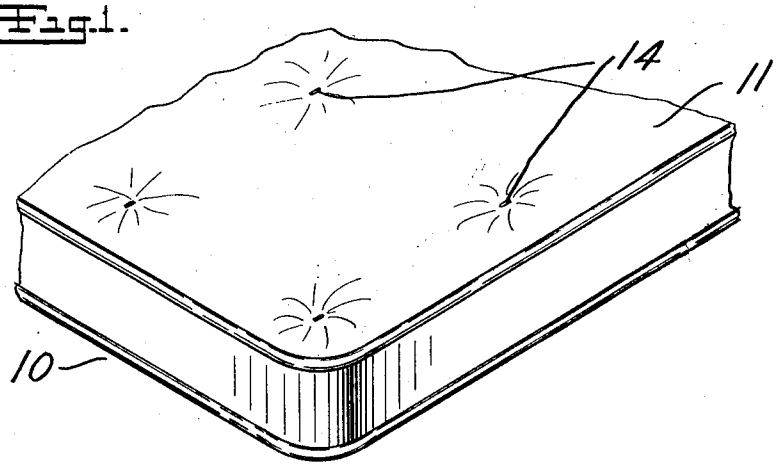


Fig. 2.

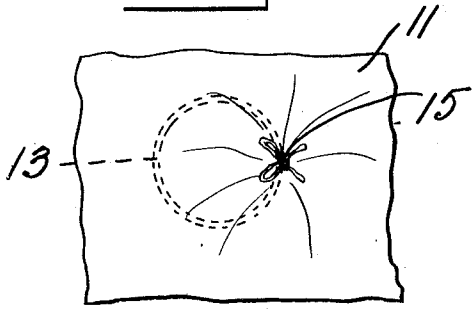


Fig. 4.

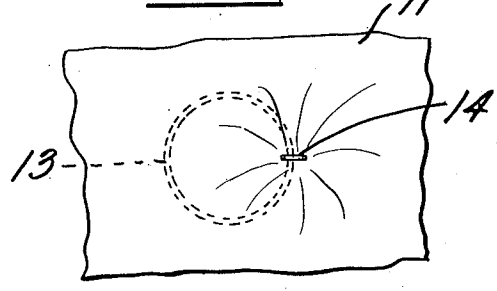


Fig. 3.

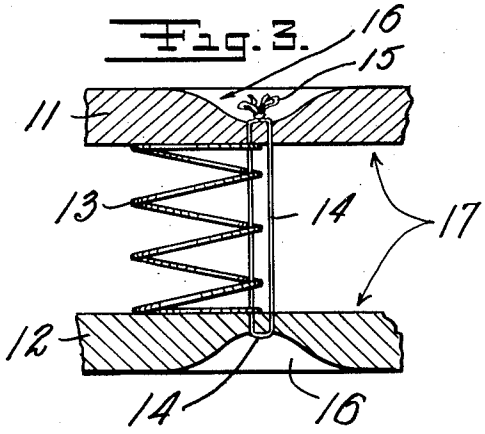
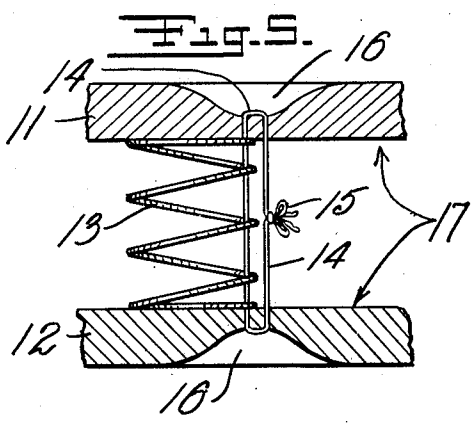


Fig. 5.



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UNITED STATES PATENT OFFICE.

MORRIS LIPPS, OF NEW YORK, N. Y.

SPRING-CUSHION CONSTRUCTION.

Application filed August 2, 1924, Serial No. 729,700. Renewed February 8, 1928.

This invention relates generally to the construction of a cushion or mattress of the box spring type.

The invention includes the attaching of cushion spring members in position in a mattress or cushion body by means of a cord loop so arranged that the knot thereon is hidden from view to provide a construction having a neat and attractive appearance. In the construction referred to coil or helical spring members are placed in position with their axes perpendicular to the cover members of the article and with their ends pressed against the confronting surfaces of the cover members. The springs are maintained in this position by means of a cord passed through the cover members and around one of the side walls of the cylinder formed by the spring member. Following the stitching or threading of the cord loop into position and the formation of a knot in the cord the loop is rotated to a sufficient degree to bring the knot thereon into a position between the cover members where it is out of sight and does not mar the neat appearance of the cushion or mattress as a whole.

Other features of the invention will be hereinafter referred to.

In the drawings, in which a preferred embodiment of the invention has been selected for illustration,

Figure 1 is a view in perspective showing a portion of a cushion or mattress embodying the invention.

Figure 2 is a plan view showing in detail the appearance of the structure before a knot formed in the spring-retaining loop has been removed from a visible position.

Figure 3 is a view in section of the parts shown in Figure 2.

Figure 4 is a view similar to Figure 2 showing the loop after a knot has been removed from its outlying position.

Figure 5 is a sectional view of the parts shown in Figure 4.

Referring to the drawings for a more detailed description of the invention, a mattress or cushion 10 is shown as made up of the two cover members 11 and 12 held in a resiliently spaced-apart relation by means of the coil or helical spring members 13.

The coil spring members 13 are retained in their position in which the ends of the spring are held in engagement with the confronting inner surfaces of the cover members 11 and 12 by means of loops 14 formed by passing a cord or stout thread through the cover members and enclosing in the loop one of the sides of the cylindrical spring device 13. Following the operation of passing the loop through the cover members 11 and 12 to form the loop 14 a knot 15 is placed in the loop to hold the same in position and prevent a separation of the cover members 11 and 12 beyond the predetermined extent found most desirable in practice.

In order to prevent the unsightly appearance occasioned by the presence of the knot 15 in one of the depressions 16 formed in the cover members at the position of the loop ends, following the operation of producing the knot the loop 14 is rotated in its seat in order to draw the knot 15 through the material of the contiguous cover member 11 into the space 17 intervening between the cover members 11 and 12. It will be seen that in this position of the knot 15 a neat and sightly appearance of the cushion is presented at either surface. In addition the absence of the knot members 15 prevents the accumulation of lint and facilitates the work of maintaining the cushion or mattress in a clean and sanitary condition.

What I claim is:—

1. In a spring cushion construction, cover members, coil spring members bearing at their ends against the inner surfaces of the cover members, and a cord loop passing through the cover members and surrounding one side of the coil spring member for holding the spring in position.

2. In a spring cushion construction, cover pad members, coil spring members bearing at their ends against the inner surfaces of the cover members, a cord loop member passing through the cover pad members and surrounding one side of the spring member, and a knot in the cord loop, said knot being drawn into the space between the cover pad members.

3. In a spring cushion construction, cover pad members, a coil spring located between said cover members, a cord loop attached to the cover pad members, one side of said loop passing within said spring and the other side of said loop passing without said spring.

4. In a spring cushion construction, cover pad members, coil spring members bearing at their opposite ends against the inner surfaces of the cover pad members, cord loop members passing through the cover pad members along the outer surface of the spring member and along the inner surface of the same side of the spring member, a knot in the loop, and said knot being drawn to a position in the space between the cover pad members.

In testimony whereof I affix my signature.

MORRIS LIPPS.