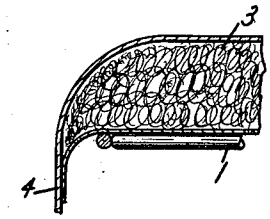
R. W. FOILL.

SPRING CUSHION STRUCTURE.

APPLICATION FILED JAN. 11, 1917. RENEWED DEC. 5, 1918.

1,292,290. Patented Jan. 21, 1919.



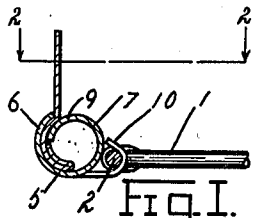


FIG. I.

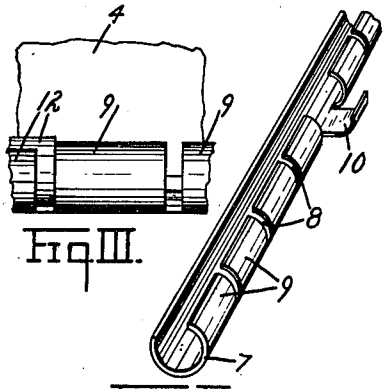


FIG. III.

FIG. V.

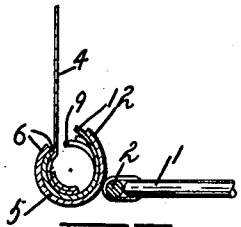


FIG. IV

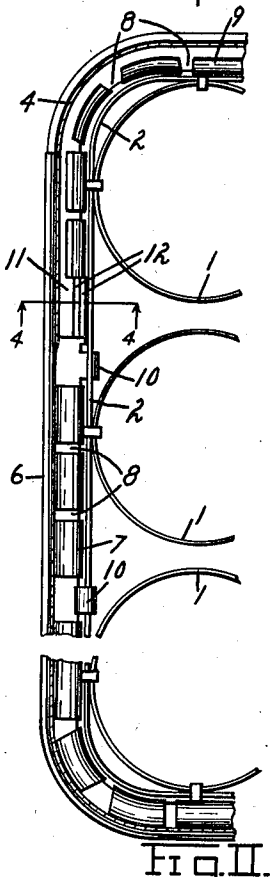


FIG. II.

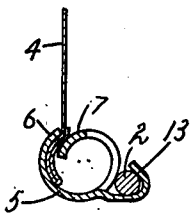


FIG. VI

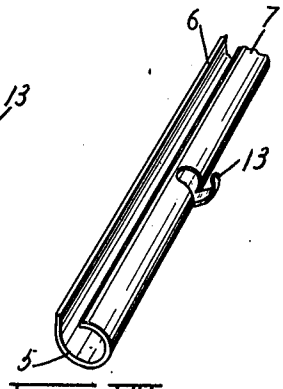


FIG. VII

WITNESSES:

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SPRING-CUSHION STRUCTURE.

1,292,290. Specification of Letters Patent. Patented Jan. 21, 1919.

Application filed January 11, 1917, Serial No. 141,889. Renewed December 5, 1918. Serial No. 265,452.

To all whom it may concern:

Be it known that I, RAYMOND WM. FOILL, a citizen of the United States, residing at Jackson, county of Jackson, State of Michigan, have invented certain new and useful Improvements in Spring-Cushion Structures, of which the following is a specification.

This invention relates to improvements in spring cushion structures.

The main objects of this invention are:

First, to provide an improved spring cushion structure in which the springs are effectively supported within the cushion and the covering effectively secured.

Second, to provide an improved spring cushion structure having these advantages which is neat and attractive in appearance, simple and economical in its parts and easily and quickly assembled.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

Figure I is a detail vertical section of a spring cushion embodying the features of my invention.

Fig. II is a detail horizontal section on a line corresponding to line 2—2 of Fig. I, a part of the cover clamping members being shown closed or clamped and a part of them open.

Fig. III is a detailed inside view showing the means for securing the ends of the frame member together.

Fig. IV is a detail transverse section on a line corresponding to line 4—4 of Fig. II, showing further details of this securing means.

Fig. V is a detail perspective view of the frame prior to assembling in the cushion.

Fig. VI is a detail vertical section of a modified form of my invention in which the inner or cover clamping edge of the frame is not slit.

Fig. VII is a detail perspective view of the frame of this modification.

In the drawing similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawing, the springs 1, which are shown conventionally, are of the coiled type. These springs, in the structure illustrated, are provided with a suitable mount or support comprising a border frame 2. The details of the spring mount are not shown, as various forms in more or less general use may be employed. The upholstery covering, designated generally by the numeral 3, is provided with a depending skirt or side portion 4.

I provide a spring support and cover attaching frame 5 formed of sheet metal and in its preferred embodiment formed into a curved cross section, as shown. This frame member is disposed to face upwardly thereby providing an upwardly projecting outer edge 6 and an inner edge 7. In the preferred embodiment this inner edge has a plurality of slits 8 therein forming a plurality of cover clamping fingers or members 9 and spring mount engaging tongues 10. The lower edge of the cover skirt 4 is disposed within this frame and secured therein by clamping the members 9 against the covering, as shown in Fig. I. The mount engaging tongues 10 are clamped over the spring mount border wire 2.

In practice I preferably form this frame as a continuous piece, the ends being telescoped together as at 11,—see Fig. II, and retained in their telescoped relation by offsetting alined clamping members 12,—see Figs. II and IV.

In assembling the structure the springs are arranged on their mount and the frame 5 secured thereto. The upholstery covering is then put in position with its lower edges arranged within the frame 5 and secured therein by clamping the members 9 thereon. This may be done very rapidly by a machine provided for the purpose which, however, forms no part of this invention and is, therefore, not illustrated herein. The edge of the covering is fully protected by the frame 5 and the structure has a finished and attractive appearance. It also is of advantage in that the parts are simple and economical to produce and the cover may be quickly and securely mounted.

In the modification shown in Figs. VI and VII the inner edge 7 of the frame 5 is

not slit to provide a plurality of clamping members 9, but is clamped as a unit.

In the embodiment of Figs. VI and VII the spring mount engaging tongues 13 are provided.

I have not attempted to illustrate or describe certain other modifications which I contemplate, as I believe the disclosure made will enable those skilled in the art to which my invention relates to embody or adapt the same as may be desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a spring cushion, the combination of the springs and upholstery covering, of a spring support and cover attaching means comprising spring mount and a metallic frame of curved cross section disposed to face upwardly, the inner edge of the frame being transversely slit providing a plurality of cover clamping members and spring mount engaging tongues, the ends of the frame having telescoping engagement and being retained in engagement by the offsetting of alined clamping members of the telescoping parts, the edge of the cover being arranged within the frame and secured therein by clamping said clamping members thereon, said tongues being engaged with said spring mount.

2. In a spring cushion, the combination of the spring and upholstery covering, of a spring support and cover attaching means comprising a metallic frame having upturned edges disposed to face upwardly, the inner edge of the frame being transversely slit providing a plurality of cover clamping members, the ends of the frame having telescoping engagement and being retained in engagement by the offsetting of alined clamping members of the telescoped parts, the edge of the cover being arranged within the frame and secured therein by clamping said clamping members thereon, and connections for said springs to said frame.

3. In a spring cushion, the combination with the springs and upholstery covering, of a spring support and cover attaching means comprising a spring mount, and a metallic frame of curved cross section disposed to face upwardly and with the lower edge of the cover arranged therein, the inner edge of the frame being transversely slit providing a plurality of cover clamping members clamping the cover against the outer edge of said frame, and also providing a plurality of tongues engaged with the spring mount.

4. In a spring cushion, the combination with the springs and upholstery covering, of a spring support and cover attaching means comprising a spring mount and a metallic frame of curved cross section disposed to face upwardly and with the lower edge of the cover arranged therein, the inner edge of the frame being clamped against the cover securing it to the outer edge of said frame, said frame being provided with tongues engaged with said spring mount.

5. In a spring cushion, the combination with the springs and upholstery covering, of a spring support and cover attaching means comprising a spring mount and a metallic frame of curved cross section disposed to face upwardly with its edges in overlapped relation, the lower edge of the covering being arranged between the overlapped edges and clamped therebetween, the said frame being provided with tongues engaged with the spring mount.

6. In a spring cushion, the combination with the springs and upholstery cover, of a spring support and cover attaching means comprising a spring mount and a metallic frame of curved cross section disposed to face upwardly with its edges in overlapped relation, the lower edge of the covering being arranged and clamped between the overlapped edges of said frame.

7. In a spring cushion, the combination with the spring and upholstery covering, of a spring support and cover attaching means comprising a spring mount and a metallic frame having overlapping edges the outer edge of which is curved in cross section, the lower edge of the covering being arranged and clamped between the outer curved edge and the inner edge of said frame, said frame being provided with tongues engaged with the spring mount.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

RAYMOND WM. FOILL. [L. S.]

Witnesses:

EDWARD F. SMITH,

LYMAN A. VINCENT.