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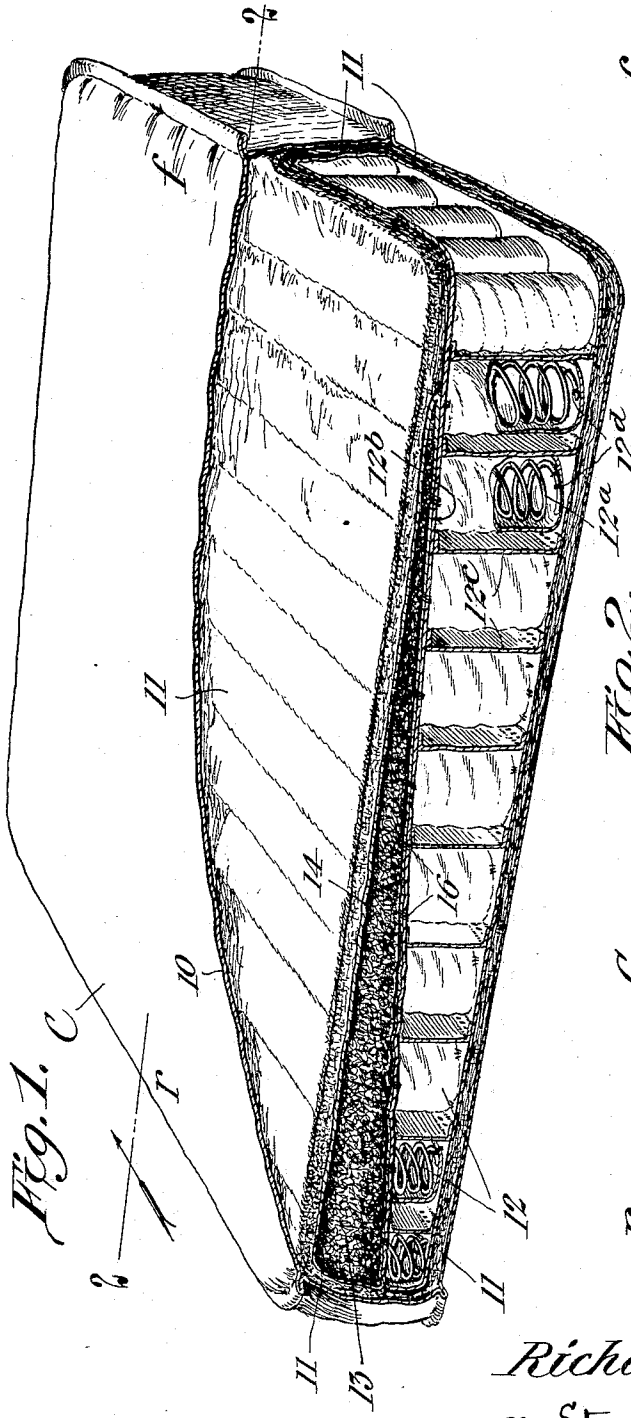
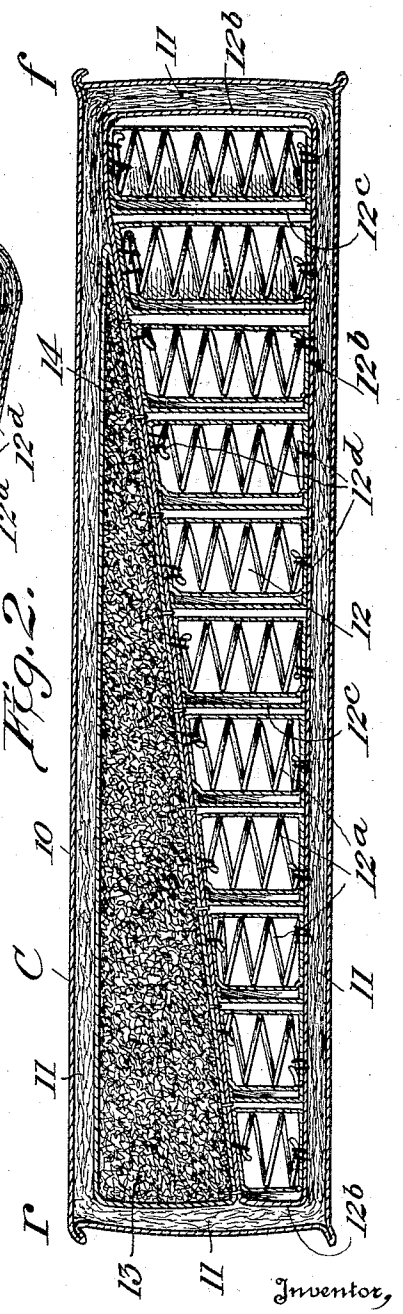
CUSHION CONSTRUCTION

Filed July 23, 1931





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UNITED STATES PATENT OFFICE

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CUSHION CONSTRUCTION

Application filed July 23, 1931. Serial No. 552,716.

The present invention relates to an upholstered cushion construction particularly adapted for use in chairs, sofas, and the like, but which may be used for other seats and chairs, generally, where desired.

The object of the present invention is the provision of an upholstered cushion construction including a spring unit and upper pad unit so arranged that the front edge of the cushion will be supported by springs alone in order to maintain the front edge at all times in a neat and well-defined extended position and against sagging, while the center and rear portions of the cushion are padded with down or other soft stuffing material so as to give the requisite softness and comfort to the cushion.

With the above and other objects in view the invention resides in the sundry details of construction, combination, and arrangement of parts hereinafter more fully described and pointed out in the appended claims.

In the accompanying drawings, one form of the invention is disclosed, by way of example, in which:—

Figure 1 is a perspective view of the cushion with one side edge broken away to illustrate the interior construction of the cushion; and

Figure 2 is a sectional view taken substantially on line 2—2 of Figure 1.

Broadly considered the cushion C consists of a unitary structure having a bottom spring unit 12 and an upper pading unit 13, the spring unit having a plurality of coil springs of graduated heights and the padding unit being superimposed on the spring unit and so shaped as to be reversely graduated to the springs, the combined construction being a rectangular body.

With detailed reference to the drawings, the cushion C is substantially rectangular in transverse cross-section from its front edge f to its rear edge r and has an outer covering of any suitable material 10 which will cover all sides of the cushion. Under the covering material 10 is disposed a cottom batting 11 which is coextensive therewith and of suitable thickness and encloses the lower spring unit 12 and the upper padding unit 13.

The spring unit 12 comprises rows of coil springs 12^a disposed in a flexible covering 12^b, each row being separated by partitions 12^c of flexible material. This material may be of any siutable kind or type, but it has been found that muslin cloth is quite useful for the purpose. The partitions 12^c may enclose each individual coil and the coils may be, further, enclosed in a cloth bag or wrapping. To further insure the maintenance of the springs in position against displacement they may be secured by suitable means, preferably stitching 12^d, to the top and bottom walls of the spring units covering 12^b.

The spring unit 12 is so constructed as to have a substantially flat bottom face or side and a rearwardly and downwardly inclined upper face, which may be accomplished by having the spring coils 12^a of graduated heights with its higher end disposed in the front end of the cushion and its lower end extending toward the rear end r of the cushion.

The pad unit 13 of the cushion C consists of a down-proof casing of muslin or other flexible material 14 and is filled with a suitable stuffing material 15, such as down, felt, floss, hair, or the like. This pad unit 13 is superimposed upon the spring unit 12 and is wedge-shaped in cross-section; that is, having a substantially flat upper face and a forwardly and upwardly inclined bottom face complemental to the upper face of the spring unit. It is preferred, as shown in the drawings, to have the front edge of the pad unit terminate at a distance rearwardly of the front end f of the cushion so that the front upper edge of the cushion will be supported only by the spring unit for the purpose of keeping said edge in extended neat position. The pad unit, as will be observed, increases in thickness rearwardly of the cushion so as to give increasing softness and comfort where it is most desired.

The units 12 and 13 may be suitably secured together, as at 16, by stitching or the like for the purpose of preventing relative movement of these parts, but this is optional.

The spring unit is first laid in position, the pad unit is then superimposed upon the spring unit to assume the position substantially illustrated in the drawing, and the parts may be then secured together at the points 16. A layer of cotton batting 11 is then laid around all sides of the structure thus far fabricated, and the entire structure then covered by a suitable covering material 10. It will thus be seen that there are provided complementary members, that is the spring unit and the padding unit whose cross sectional contours permit the superposed relation of the spring unit and padding unit in which the latter can terminate a distance remote from the front edge.

In this specification and the annexed drawings, the invention is disclosed in the form in which it is considered to be the best, but the invention is not limited to such form because it is capable of being embodied in other forms; and it is to be understood that in and by the claims following the description herein it is intended to cover the invention in whatever form I may embody within the scope thereof.

What is claimed as new is:

1. A cushion structure including an enclosing covering, a spring unit within the casing and extending from the front and to the rear end thereof and a padding unit superimposed upon the spring unit, said spring unit and padding unit being of complementary cross sectional contour whereby the front of the cushion is supported and held extended by said spring unit alone and the padding unit terminates at a distance remote from the front edge of the spring unit.

2. A cushion structure including an enclosing covering, a spring unit within the casing and extending from the front and to the rear end thereof and a padding unit superimposed upon the spring unit, said spring unit and padding unit being of complementary cross sectional contour whereby the front of the cushion is supported and held extended by said spring unit alone, and the padding unit terminates at a distance remote from the front edge of the spring unit, and a yieldable lining pad between said cover material and the interior structure of said cushion.

3. A cushion construction comprising a bottom spring unit composed of a plurality of coil springs having its upper surface rearwardly and downwardly inclined from its front edge, and a padding unit of a stuffing material disposed upon said spring unit and having a substantially flat top surface and a forwardly and upwardly inclined bottom surface complemental to the top surface of said spring unit, and a covering for said cushion.

4. A cushion construction comprising a bottom spring unit having a substantially flat bottom surface and composed of a plurality of coil springs of graduated heights from the front to the rear end thereof, a padding unit of suitable stuffing material disposed upon said spring unit and having a substantially flat top surface and a forwardly and upwardly inclined bottom surface complemental to the top surface of said spring unit, and a covering for said cushion.

5. A cushion construction comprising a bottom spring unit composed of a plurality of coil springs having its upper surface rearwardly and downwardly inclined from its front edge, and a padding unit of a stuffing material disposed upon said spring unit and having a substantially flat top surface and a forwardly and upwardly inclined bottom surface complemental to the top surface of said spring unit, the front edge of said padding unit terminating at a point remote from the front edge of said spring unit, and a covering for said cushion.

6. A unitary cushion structure having substantially flat top and bottom surfaces, a spring unit in the bottom of said cushion comprising a plurality of coiled springs of gradually decreasing heights from one end to an opposite end of said cushion, a flexible enclosure enveloping said springs and maintaining them in position, a padding unit comprising a flexible enclosure filled with a stuffing material and disposed on said spring unit and having the surface thereof opposite said springs reversely graduated complementary to the springs, and a covering enclosing said units, the combined structure forming a substantially rectangular body in cross-section.

In testimony whereof, I affix my signature.

RICHARD L. SWANSON.