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J. KRONHEIM

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UPHOLSTERED FURNITURE

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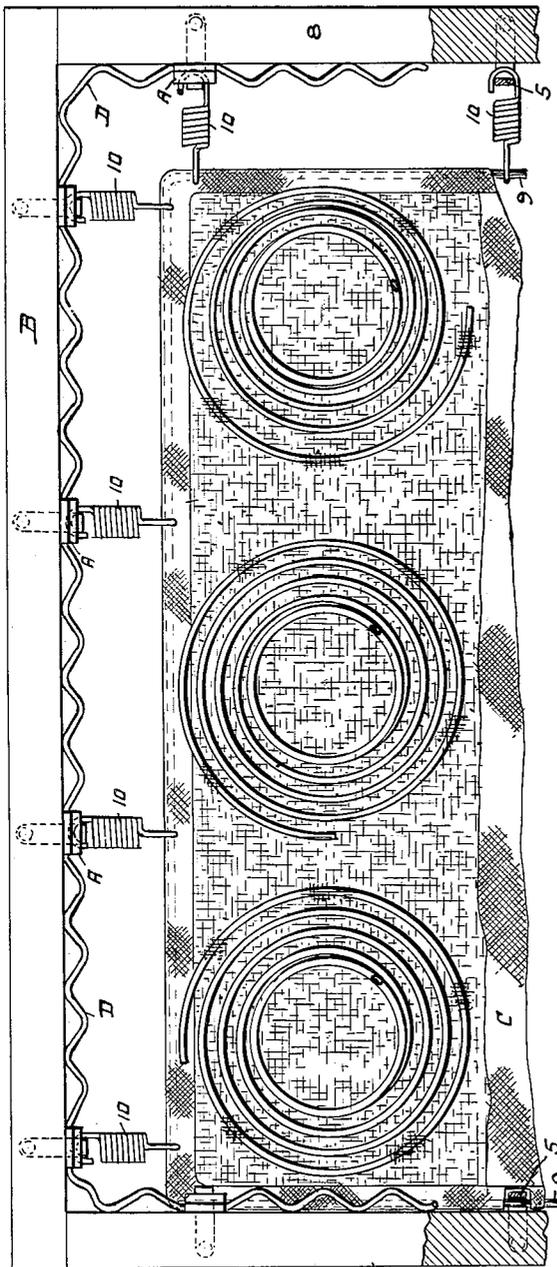


FIG. 1

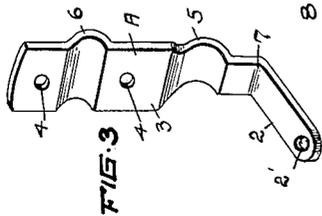


FIG. 3

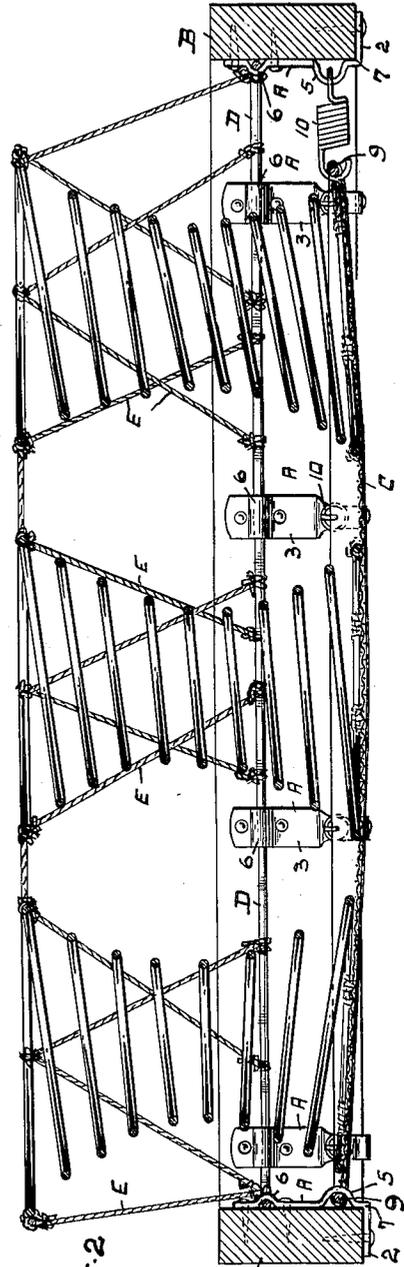


FIG. 2

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UPHOLSTERED FURNITURE

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This invention relates to an improvement in upholstered furniture, and more particularly to resilient bottoms for upholstered chairs and couches. Thus the invention consists of a yielding structure of simple construction and low cost adapted to be readily installed within a chair or couch frame to provide a finished resilient bottom when upholstered. To promote the production and installation of such bottoms the structure includes a suspensory bracket which is particularly constructed to be easily attached to a wooden frame to permit different elements or parts of the structure to be connected to the inside of the frame at different elevations therein, all as hereinafter shown and described and more concisely set forth in the claims.

In the annexed drawing, Fig. 1 is a plan view of a portion of a rectangular frame and a resilient bottom suspended therein according to the present invention. Fig. 2 is a sectional view vertically through said structure, and Fig. 3 a perspective view of one of the suspensory brackets used in and for the resilient structure.

In building a spring seat within a chair or couch frame, it is desirable that the springs be yieldingly supported, and the accepted practice is to mount a group of coiled springs upon webbing or some other flexible bottom stretched within the frame. The coiled springs are then tied to the frame and placed under tension preliminary to covering or upholstering the complete structure. To promote the foregoing purposes in general I have devised a simple and desirable form of bracket or suspensory member A made of flat bar stock and bent at one end to provide a right-angled flange or extension 2 having a nail or screw opening 2' at or near its extremity. Angular extension 2 is made narrower than the main body 3 of the bracket, and the lower part of the main body 3 is also made narrower than the upper part which contains two nail or screw openings 4. Also, two grooved or channeled offset portions or ribs 5 and 6, respectively, are formed transversely in the main body 3 of the bracket by upsetting or stamping the metal on rounded

concavo-convex lines. Channeled rib 5 is formed in the narrowed lower part of the body between its juncture with the wider upper part and the angular lower corner 7 of the bracket, while channeled rib 6 is formed near the upper end of the wider part of body 3. Channel 5 is also somewhat larger or deeper than upper channel 6 to permit a relatively heavy wire or other round member to be confined rotatably therein when the bracket is nailed or screwed to the inside face and bottom edge of a rail 8 such as form the respective sides and ends of a chair seat or couch frame B.

Thus, by attaching a given number of the angle iron brackets A at spaced intervals vertically at the inside of each rail, it is possible to suspend a fabric bottom C in a tightly-stretched position within the lower part of frame B, and also secure a corrugated wire D at a higher elevation within the same brackets upon the inside of each rail and near the upper edge thereof. As constructed, each bracket A permits the fabric bottom C to be fastened in two ways to the frame, that is, first, the front edge of the fabric bottom C which is hemmed and contains a border wire 9, may be hinged to the narrow lower part of each bracket where channeled and offset at 5, and secondly, the end and rear edges of the fabric bottom which are hemmed and contain the same or a similar border wire 9 may also be connected yieldably by helical springs 10 to the corresponding brackets A which are fastened upon the end and rear rails of the frame. Thus, each spring 10 may be readily hooked to the narrowed lower part of each bracket where channeled and offset at 5, inasmuch as the bracket itself is made narrow to readily receive the hooked end of the spring where channeled or offset at 5.

All the brackets A are alike in construction, and the corrugated wire D is clamped to each rail of the frame by these brackets to facilitate the attachment of hemp cords E thereto at any place or point lengthwise of the rails. The cords are used to tie the coiled springs together and to draw them downwardly and keep them under a prede-

terminated tension so that the tops of the springs may lie in the same plane before and after being upholstered. Chains or links may be used in lieu of cords, and by providing a corrugated wire lengthwise of the rails the cords, chains, or links, may be fastened in many places along the rails and singly to the individual loops or corrugations in the wire.

10 What I claim is:

1. In a chair or couch frame having a flexible bottom pivotally connected to and by spring means yieldingly stretched within said frame, a sinuous wire rigidly attached to the inside of said frame, a series of angle brackets attached to the inside of said frame including perforated straight attaching portions engaged with and attached to the inner wall and the bottom wall of said frame, each of said brackets having its straight attaching portion provided with an upper open channeled offset portion rigidly clamping said wire to said frame, and a lower open channeled portion of decreasing width and larger dimensions than said first channeled offset, the upper and lower portions of said brackets being separated from each other by one of said straight portions, certain of said lower portions of said brackets being pivotally connected with said bottom and certain of said lower portions of said brackets being in interlocking engagement with said spring means.

2. A chair or couch frame having a flexible bottom stretched within said frame, a series of springs seated upon said bottom, a series of angle brackets attached to the inside wall and the bottom wall of said frame, each bracket including open channeled portions for securing said bottom pivotally to said frame, and for rigidly securing an elongated tie member for said springs parallel to the upper edge of said frame.

3. A chair or couch frame having a flexible bottom stretched within said frame, a series of springs seated upon said bottom, an elongated tie member for said springs supported parallel to the upper edge of said frame, and a series of angle brackets attached to the inside wall and the bottom wall of said frame, each bracket including in its main body an open channeled offset portion for pivotally securing said bottom to said frame and an open channeled, offset portion for rigidly clamping said tie member in proper position to said frame said offset supporting and clamping portions being separated by a straight portion attached to the inside of said frame.

In testimony whereof I affix my signature.

JACOB KRONHEIM.