

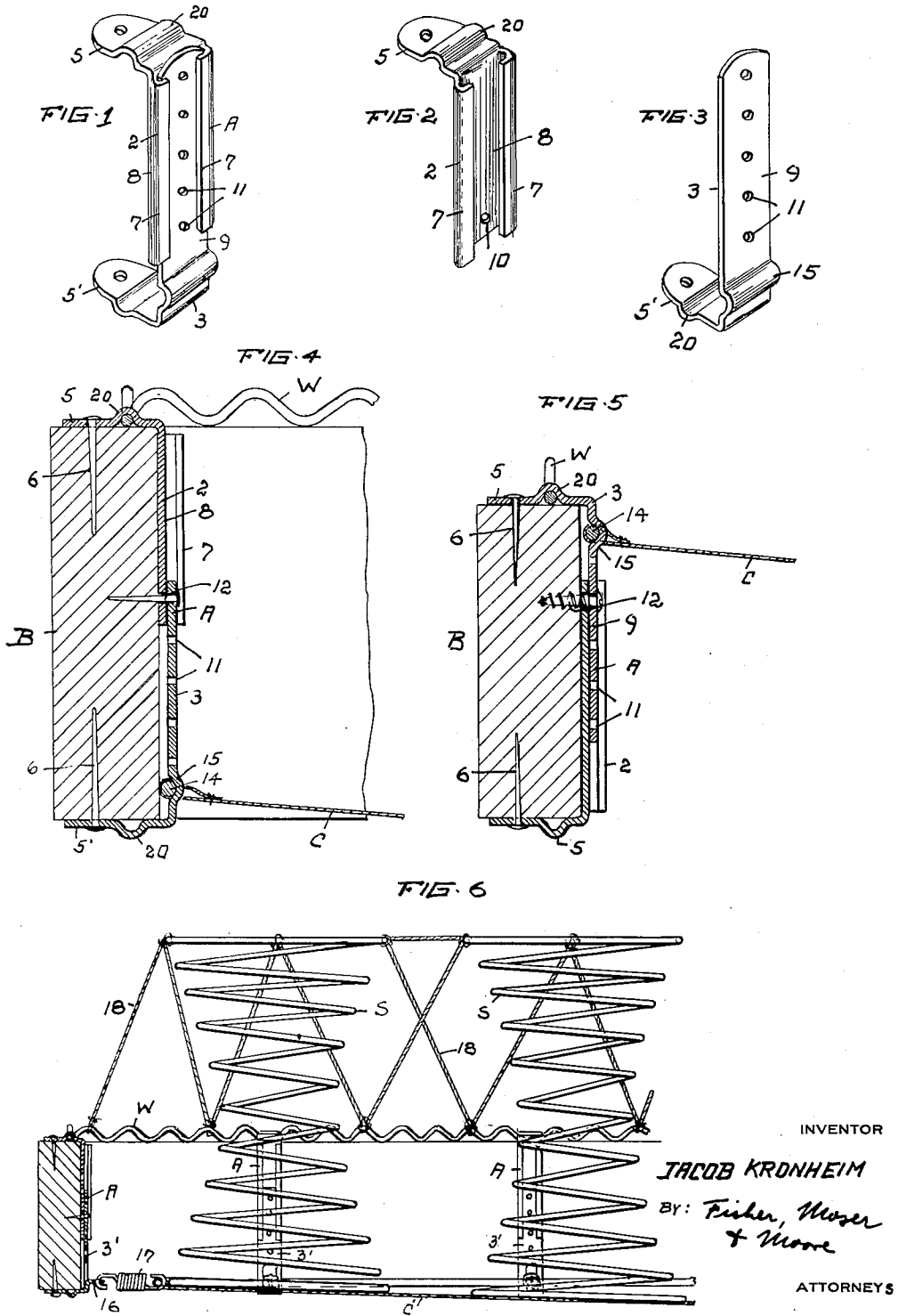
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J. KRONHEIM

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HANGER FOR RESILIENT CHAIR SEATS AND COUCH BOTTOMS

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INVENTOR

JACOB KRONHEIM

BY: Fisher, Moser  
& Moore

ATTORNEYS

# UNITED STATES PATENT OFFICE

JACOB KRONHEIM, OF CLEVELAND, OHIO

HANGER FOR RESILIENT CHAIR SEATS AND COUCH BOTTOMS

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My invention pertains to an improvement in resilient seats and bottoms for chairs and couches, and more particularly to an improved hanger which may be readily adjusted and easily fastened to fit chair and couch frames of different sizes, and by means of which different members or parts of the seat or bottom may be readily attached to the frame or suspended therefrom, all substantially as hereinafter shown and described and more specifically set forth in the claims.

Referring to the accompanying drawing, Fig. 1 is a perspective view of one of my improved hangers, and Figs. 2 and 3 are similar views of the respective parts or members thereof separated. Figs. 4 and 5 are sectional views of the hangers affixed to chair or couch rails of different sizes. Fig. 6 is a sectional view of a part of a chair or couch frame and a resilient structure suspended therein by several such hangers.

The present hanger A is made of two separate pieces of metal 2 and 3, respectively, each piece having right-angled flanges or end portions 5-5' adapted to overlap and engage the top and bottom edges of a wooden rail B and to be secured thereto by nails 6, see Fig. 4. Rail B forms one side member of an open rectangular frame within which a resilient seat or bottom C is suspended preliminary to upholstering the same. The present hangers are designed to facilitate building and upholstering operations, and any desirable number of such hangers are secured to the rails B at spaced intervals to support the resilient seat or yielding bottom. A relatively large couch frame embodies heavier and larger rails than a small couch, chair or bench, and to accommodate these different sizes of rails or frames, member 2 of the hanger is flanged or folded inwardly at its opposite vertical edges 7, thereby providing a channeled body portion 8 adapted to receive and slidably confine the plain flat body portion 9 of hanger member 3, see Fig. 1. Member 2 contains one or more nail or screw openings 10, and member 3 is provided with a row of similar openings 11 vertically therein adapted to register with the opening or openings 10, thereby permitting a nail or screw 12 to pass

through both members to fasten them rigidly to the flat side wall of wooden rail B. When so fastened in place the lower hanger member 3 is connected to the upper member 2 and the downward pull and load carried by the lower member is partly sustained by the upper member. Thus assuming member 3 to be affixed to either the upper or lower part of rail B, it may be employed to suspend a woven textile member C, or any other member of a resilient or yielding structure, within the seat or couch frame, for example as delineated in Figs. 4 and 5, where a border wire 14 is used to connect base member D with hanger member 3, which is grooved and ribbed transversely to provide a recessed or loop portion 15 adapted to receive and hold the wire and to clamp it tightly against rail B. Or, a hanger member 3' may be provided with a perforated ear 16 (see Fig. 6) to permit a helical suspension spring 17 to be hooked thereto and to base member C.

Accordingly, either form of hanger member 3 or 3' may be used with the channeled hanger member 2 to suspend the same bottom member C within a couch or seat frame. The hanger members may also be inverted or reversely placed on the rail, as exemplified in Figs. 4 and 5, whereby the yielding bottom C may be suspended at different elevations within the frame dependent upon the type or kind of spring structure to be installed within the frame.

Where spiral springs S are used, as indicated in Fig. 6, the practice is to tie the springs together and to compress the springs and place them under tension prior to upholstering or covering the same. To avoid the use of tacks and to promote tying operations, I secure a corrugated wire W to the upper edge of rail B and tie the hemp cords 18 to this wire. The wire W is fastened to the rail by the angularly bent end or flange 5 of a hanger member, which is ribbed and grooved transversely at 20 to seat and clamp the wire upon the rail.

What I claim, is:

1. A hanger for resilient chair seats and couch bottoms, comprising a pair of complementary clamping members adapted to be

overlapped upon the side of a rail, said members having perforated and grooved extremities bent at right angles to permit the same to be secured to the rail.

5 2. A hanger for resilient chair seats and couch bottoms, comprising complementary members having registering openings and formed with angularly bent end portions adapted to fit a rail, one of said members including a recessed portion for securing another member to said rail.

10 3. A hanger for chair seats and couch bottoms, comprising a pair of adjustable members one of said members having means extending integral from one side thereof adapted to connect a yielding bottom thereto, each member including an angular attachment portion adapted to embrace a rail and formed with a grooved portion adapted to secure a tie member longitudinally of said rail.

15 4. A hanger for resilient chair seats and couches, comprising a two piece hanger having straight end portions angularly related to the body of said hanger adapted to embrace a rail, each end portion having a transverse groove therein to secure a tie member longitudinally of said rail, and one of said pieces having means for suspending a base member for a resilient bottom therefrom.

20 5. A hanger for chair and couch frames, comprising a pair of angularly-formed members having corresponding portions slidably connected together, the connecting portion of one of said members being recessed to permit a suspensory connection to be made therewith.

25 6. A hanger for chair and couch frames, comprising a pair of complementary clamping members made of perforated strips of metal bent to angular form and adapted to be overlapped upon the side of a rail and to be attached thereto, and an openly channeled portion formed in one of said members to permit of ready attachment of a wire member thereto for securing said wire member to and adjacent the face of the rail.

In testimony whereof I affix my signature.  
JACOB KRONHEIM.

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