

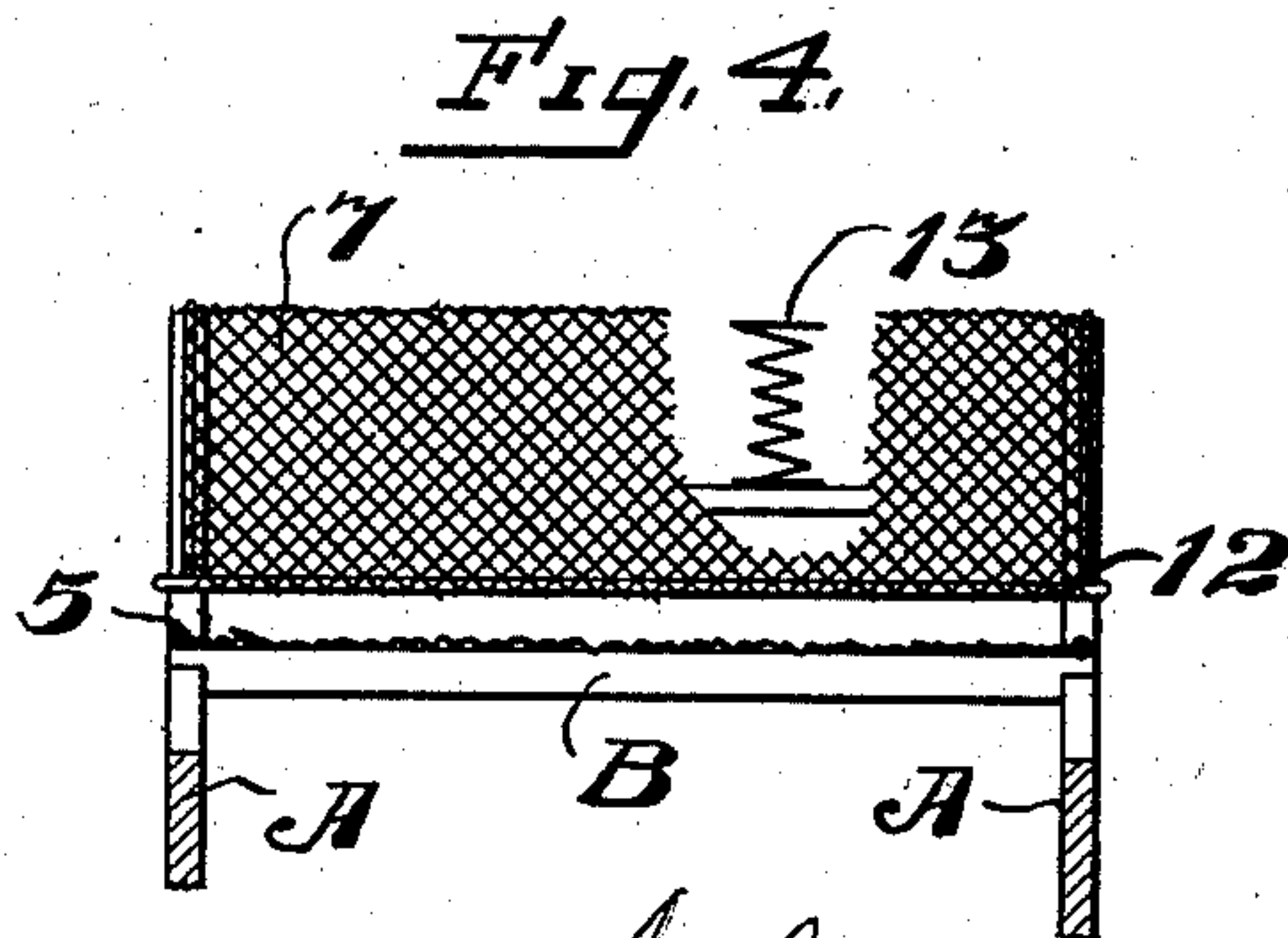
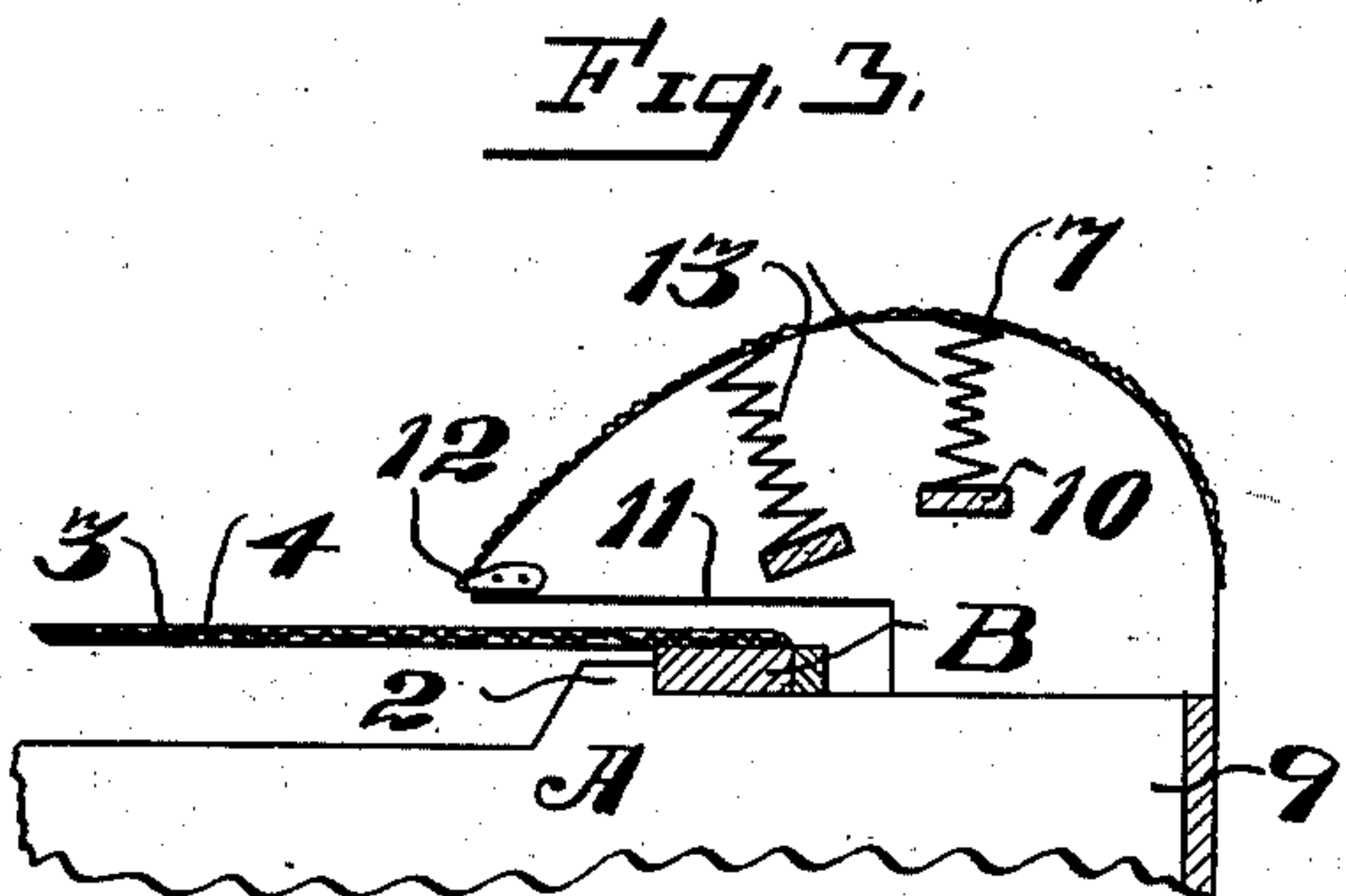
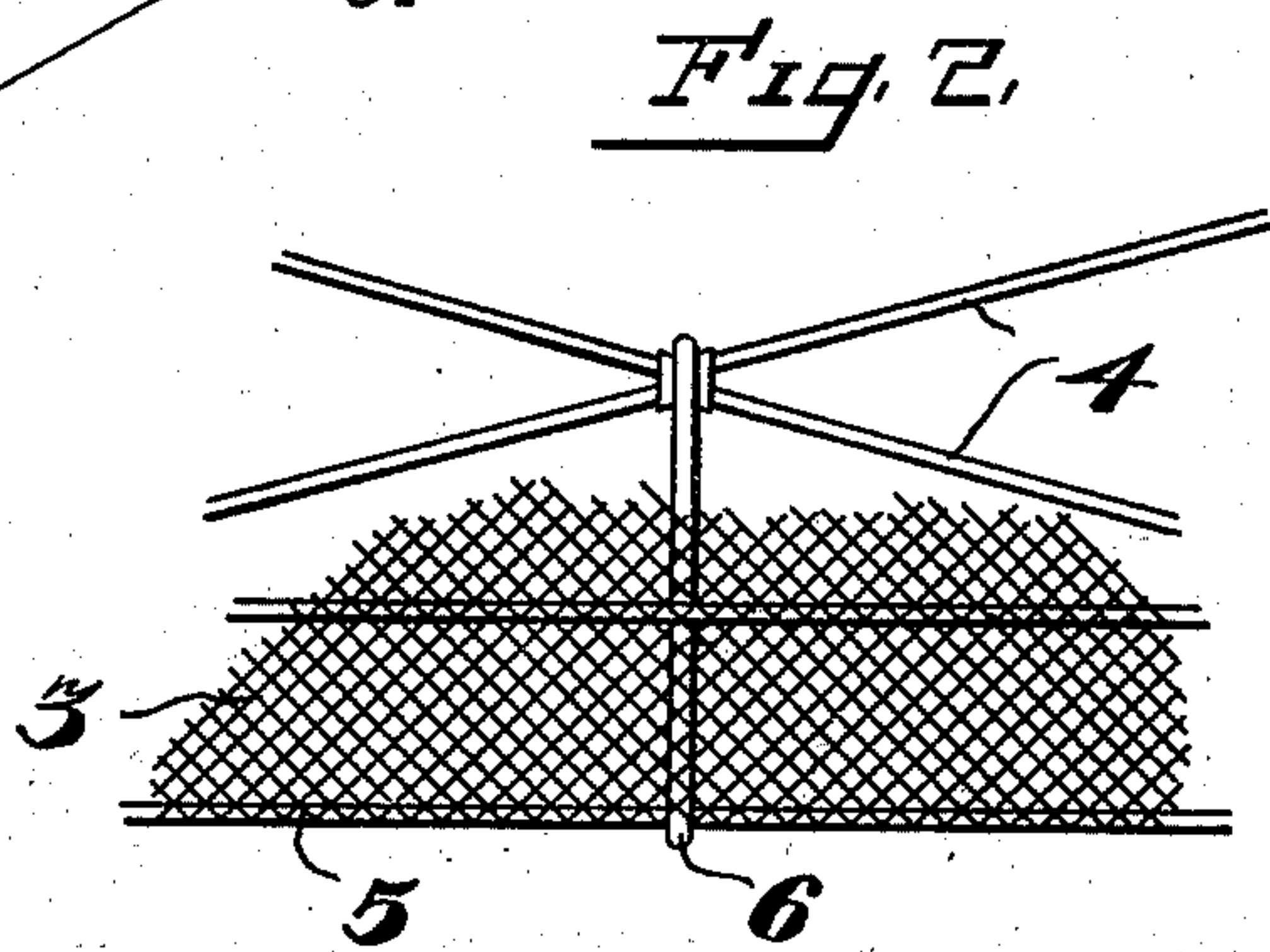
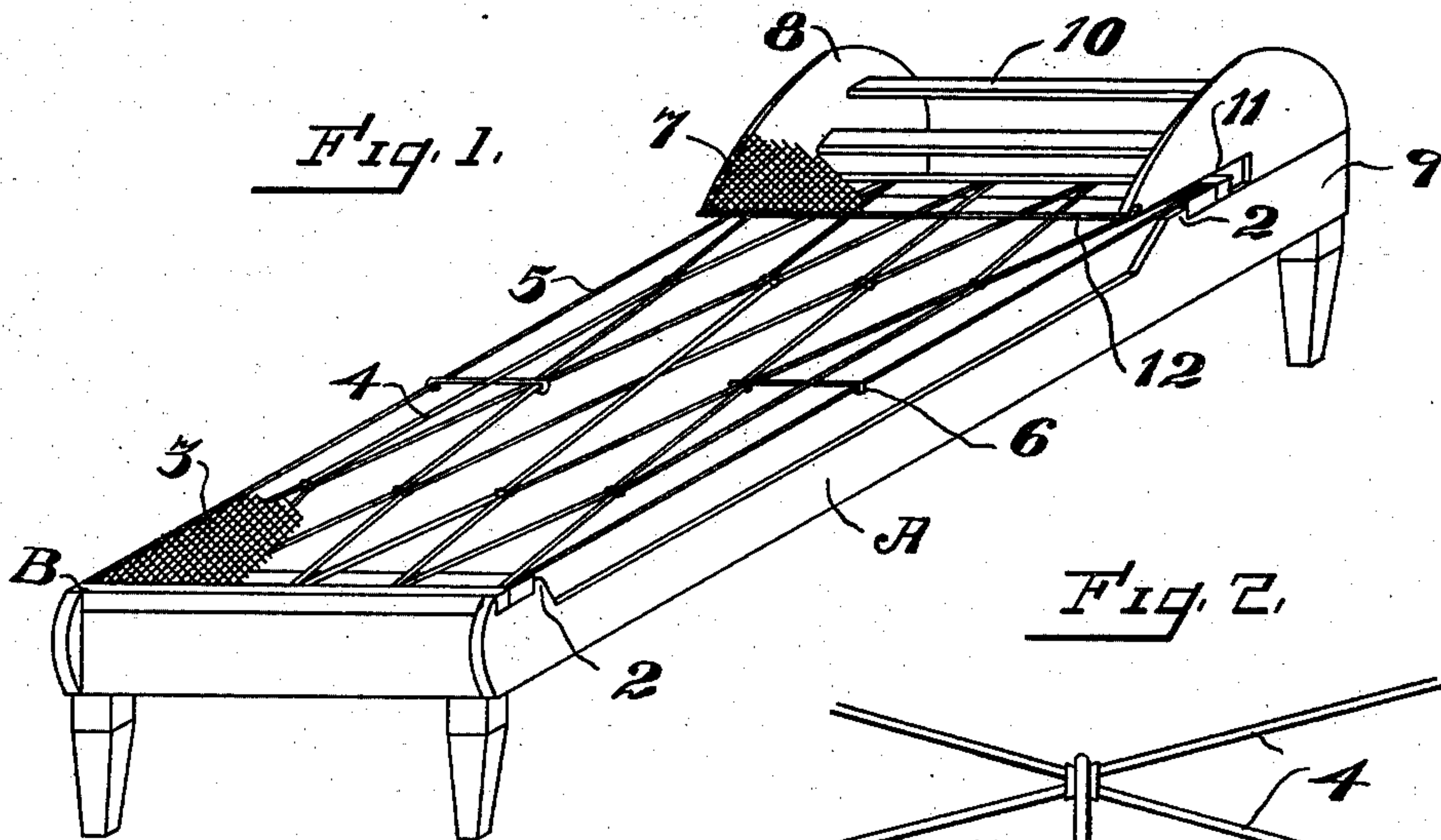
No. 749,673.

PATENTED JAN. 12, 1904.

J. HOEY.  
COUCH.

APPLICATION FILED SEPT. 10, 1903.

NO MODEL.



Witnesses,  
*James  
Dudley Moss.*

Inventor,  
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*Geo. B. Strong* atty



# UNITED STATES PATENT OFFICE.

JOHN HOEY, OF SAN FRANCISCO, CALIFORNIA.

## COUCH.

SPECIFICATION forming part of Letters Patent No. 749,673, dated January 12, 1904.

Application filed September 10, 1903. Serial No. 172,639. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN HOEY, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented new and useful Improvements in Couches, of which the following is a specification.

My invention relates to improvements in couches.

It consists in a novel construction of woven wire in connection with elastic cables stretched to form a seat portion of the couch and its disposition in conjunction with the raised and curved head of the couch in such a manner that the edge of the fabric can be brought out flush with the side rails of the couch.

It also consists in the formation of the head in such a manner that the woven-seat fabric is carried beneath the head portion, and the latter may also be formed of woven-wire fabric having a tension cable or wire edge at its junction with the seat portion of the fabric, so as to form a continuous elastic connection at this junction.

My invention also comprises details of construction which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a perspective of my invention with part of wire fabric removed. Fig. 2 is a plan of a portion of fabric and elastic cables. Fig. 3 is longitudinal central section of head portion of couch. Fig. 4 is a front view of same.

In the construction of couches of this description if woven-wire fabric be used it is now ordinarily stretched between a bar at the foot and another bar which is usually placed at the junction of the seat and the head, and this forms a hard place, which is undesirable. If it be attempted to extend the woven-wire fabric underneath the head, it has to be made sufficiently narrower than the frame so that it is not possible to bring the edges of the fabric out even with the framework of the couch, and this makes an undesirable structure. In my invention I have overcome this difficulty by slotting or channeling the head portion and carrying the transverse bar to which the woven wire is secured at that end back under-

neath the head, at the same time extending the ends out flush with the sides of the frame, so that the reinforced edge of the fabric is flush with the frame and when upholstered forms a perfectly elastic edge from one end to the other.

As shown in the drawings, A represents the side bars of a couch built up at either end to support the end bars B, which may be let into channels cut in the raised portion, as at 2, and bolted into place or otherwise firmly secured, so as to form a strong support for the woven-wire fabric 3. This fabric is stretched over these end bars in the usual or any suitable manner and is supported by elastic cables 4, which may be united to form diamond or other shaped supports extending from end to end of the couch. Upon each end of the fabric is a reinforcing-cable, as at 5, and these reinforcing-cables are supported and prevented from being forced inwardly by wire or other rods or strips 6, which may be twisted or otherwise secured to the reinforcing-cables, extending thence transversely inward and parallel with the fabric which forms the bottom. The inner ends are similarly united to one or more of the elastic cables which support the fabric, and preferably these connections with the cables will be made at points where two cables converge and are united, so that there is considerable resistance at such junction against side movement. Thus the wire being secured to the junction of two cables and extending outwardly to the reinforcing-edge cable will hold this outer cable in place with sufficient strength, but also yielding, so that it will not make an unduly hard finish at the edge of the couch when the upholstery is placed thereon.

The ends of the transverse bars B extend across the side bars and are flush with the outer faces of the side rails A, and the fabric, with its reinforced edges, also extends to the ends of these transverse bars, so that when upholstered the elastic edge of the couch is flush with the framework and prevents disagreeable contact with the latter. The head may also be composed of a wire fabric, as at 7, and this is stretched across between the end boards 8, which are cut into the desired form to give shape to the surface of the fabric.



These end boards are secured to the head-piece 9 of the couch-frame, which is extended upwardly between these boards sufficiently for the purpose. Other transverse bars, as 10, extend between these boards, which are nailed to the bars, and they are thus supported with sufficient rigidity. The woven fabric forming the curved head or arm portion is then stretched over these head or end boards, following the curvature and having a tension transversely from one board to the other.

The lower portion of the headboards 8, where they curve down to meet the seat portion of the fabric, are cut away, as shown at 11, so that the ends of the bars B at this end extend into this cut-away portion or channel and flush with its outer edge, and as the reinforced edge of the fabric is also flush with the ends of the bars B it will be seen that this edge of the seat portion of the fabric will be brought out flush with the outer faces of the headboards 8, thus making a symmetrical finish when upholstered and carrying the soft or yielding edges close to the sides of the couch, and as the head end bar B is carried into the channel 11 to a distance behind the point where the edge of the fabric 7 meets the seat fabric it will be seen that the junction of the two fabrics will be very elastic, and no hard bar or support will be encountered at this point.

In order to strengthen the edge of the woven fabric 7 which forms the head of the couch, I have shown a tension-cable or an elastic wire, as at 12, which is passed through or interlaced with the edge of the fabric 7, and thus reinforces this edge from side to side of the couch and at the point where it is contiguous to the seat fabric.

If it be desired to give the head portion a convex shape, it may be supported by spiral springs 13, the lower ends of which are supported upon the transverse bars which extend between the headboards 8.

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

1. The combination with the side bars of a couch-frame, of end bars extending across and having their ends flush with the outer faces of the side bars, woven-wire fabric stretched between the end bars having its edges reinforced

and flush with the ends of said bars, and a head portion rigid with the couch-frame at a point beyond the head end of the fabric and extending inwardly beyond the transverse bar at that end and forming an elastic junction with the seat portion.

2. The combination in a couch of a frame, a woven-wire fabric stretched between the end bars of the frame and having an elastic reinforced edge, a head rigid with the head end of the couch-frame at a point beyond the end bar at that end, said head covered with elastic woven wire and curved to form a junction with the seat portion, said junction being projected inwardly beyond the supporting end bar of the seat portion and having an elastic reinforcing edge.

3. The combination in a couch of a frame, a woven-wire fabric having reinforced edges and stretched between the end bars of the frame, a woven-wire head portion and supports therefor consisting of curved side pieces fixed to the frame at points beyond the adjacent end bar, said side pieces being cut away horizontally and projected beyond the head end bar, whereby the seat fabric is extended beneath these supports and with its edge substantially flush with the outer faces of said supports.

4. The combination in a couch of a frame having a woven-wire fabric stretched between transverse bars fixed to the foot and head of the frame, said fabric having reinforced edges flush with the ends of the bars, a woven-wire head portion stretched transversely between curved supports, said supports being fixed to the head end of the couch at a point beyond the head end bar and having the ends contiguous to the elastic seat fabric, cut away or channeled on the lower sides so that said ends are projected over the edges of the seat fabric, and the elastic edge of the head fabric extends transversely across and contiguous to the elastic seat fabric.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN HOEY.

Witnesses:

MERRITT A. CUTTEN,  
JOHN C. GILBRIDE.