A. H. GREENLUND.

CHAIR FRAME.

APPLICATION FILED DEC. 21, 1908. RENEWED APR. 3, 1912.

1,040,933. Patented Oct. 8, 1912.

Fig. 1.

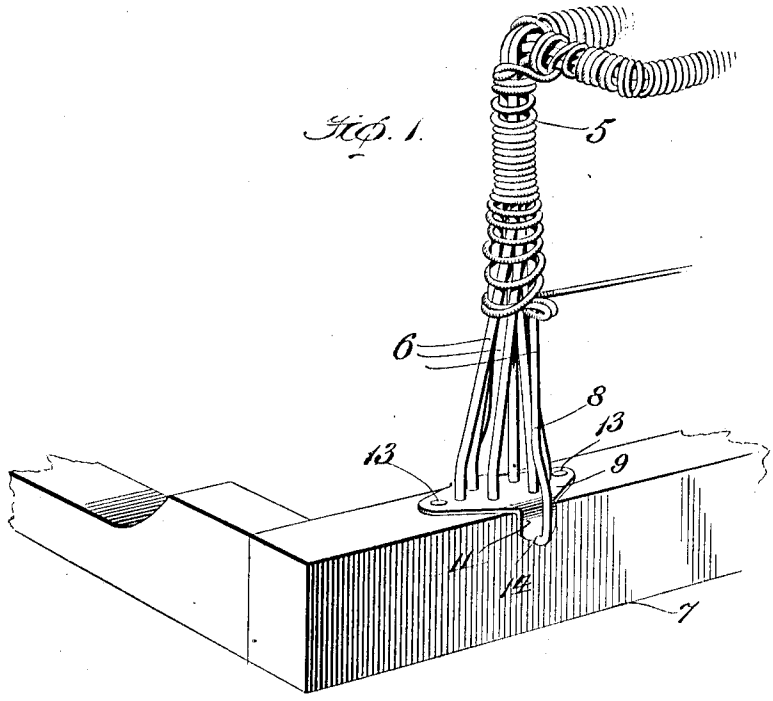


Fig. 2.

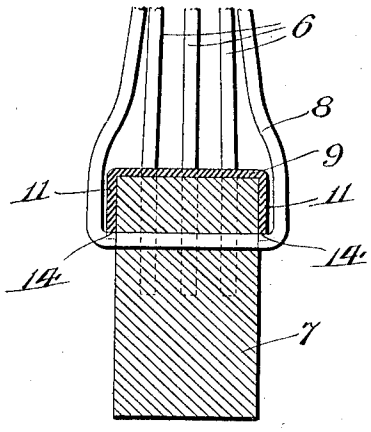
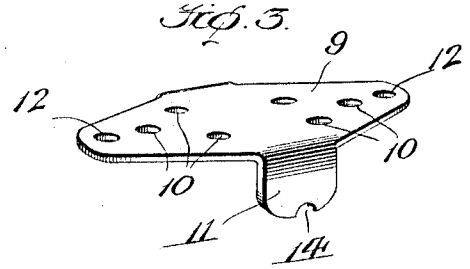


Fig. 3.



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CHAIR-FRAME.

1,040,933. Specification of Letters Patent. Patented Oct. 8, 1912.

Application filed December 21, 1908, Serial No. 468,496. Renewed April 3, 1912. Serial No. 688,192.

To all whom it may concern:

Be it known that I, ARTHUR H. GREENLUND, a citizen of the United States, residing at Jamestown, in the county of Chautauqua and State of New York, have invented certain Improvements in Chair-Frames, of which the following is a specification.

My invention is an improvement in chair-frames, and relates more especially to frames of that character which are used in the manufacture of Turkish chairs or couches, and are therefore adapted to receive and support the padding and upholstery of the finished article.

In making up chair frames of this character it is customary to employ metal rods or wires for the upper frame members, and in some instances these frame members are each composed of several wires bunched together and their ends separated for attachment to the wooden seat-frame by inserting them in holes therefor in said seat-frame, but in use these wires tend to work loose by increasing the size of the holes in which they are fitted, and thereby affect the stability of the chair.

The primary object of my invention is to provide metal frame-plates, which will serve to rigidly and firmly connect the ends of the wires to the wooden seat-frame in such manner that they cannot work loose, thereby maintaining the stability of the chair for an indefinite period.

The particular application and advantages of the invention will hereinafter appear, and what I claim as new is specifically set forth in the appended claims.

In the accompanying drawings, forming a part of this specification: Figure 1 is a perspective view of a portion of a chair showing a wire frame-member and metal frame-plate used in connection therewith. Fig. 2 is a vertical sectional view through the wooden seat-frame, to show the attachment of the wires composing the frame-member. Fig. 3 is a detail perspective view of the metal frame-plate which I employ.

Like numerals of reference indicate like parts in all the figures of the drawings.

As will be seen by reference to the drawings I have shown my invention applied to the end portion of only one of the frame-members of a chair, but it will be understood, of course, that the same construction may be employed in attaching all the other frame-members to the wooden seat-frame, and that the chair as a whole may be of any conventional design.

The frame-member, as 5, is made up of a plurality of wires 6, bunched together and suitably wrapped, as shown, the ends of the wires being separated and inserted in individual holes therefor drilled in the wooden piece 7 of the seat-frame, one of the wires, as 8, termed an anchor-wire, being in the form of a loop with its connecting portion extending transversely through the wooden piece 7. The holes which are drilled in the upper side of the wooden seat-frame or side piece 7 thereof, are all of a suitable depth and are of such size that the wires 6 will fit snugly therein, and said wires are held in this engagement by means of the anchor-wire 8 which passes through the seat-frame or piece 7 at a suitable distance from the upper edge thereof.

In order to prevent the wires from working loose by increasing the size of the holes in the wooden seat-frame when any strain comes upon the wire frame member while the chair is in use, I provide a metal frame-plate 9, which is attached to the upper side of the wooden seat-frame, and is provided with holes 10 through which the wires 6 pass, and with depending lips 11 engaging the anchor-wire at opposite sides of the seat-frame or part 7. In addition to the holes 10 for the frame wires 6 this metal frame-plate is also provided with holes, as 12, through which pass the attaching devices, as nails 13, for securing said frame-plate to the wooden seat-frame. As will be readily seen the depending lips 11 are for the purpose of reinforcing the connection of the anchor-wire with the wooden seat-frame, and for the purpose of securely engaging said anchor-wire the ends of the lips are provided with notches 14, as shown.

By employing the metal frame-plates herein shown and described in the manufacture of frames for Turkish chairs or couches a more rigid structure is provided inasmuch as the frame-wires are securely and firmly held at the point where they enter the wooden seat-frame.

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

1. In a chair construction, the combination with the wooden seat-frame, of a frame-member comprising wires bunched together and extending into the wooden seat-frame, one of said wires being extended beyond its companions and passed transversely through said seat-frame.

2. In a chair construction, the combination with the wooden seat-frame having holes, of a wire-frame member, the latter comprising wires extending into holes in the wooden seat-frame, an anchor-wire extending transversely through said seat-frame, and a metal plate secured upon the wooden seat-frame and having holes corresponding to and alining with those in the wooden seat-frame and through which said wires pass into the wooden seat-frame.

3. In a chair construction, the combination with the wooden seat-frame, of the wire-frame member, comprising wires which extend into the upper side of the wooden seat-frame, an anchor-wire extending transversely through said wooden seat-frame, a metal plate secured upon the wooden seat-frame and having holes corresponding to and alining with those in the wooden seat-frame and through which said wires pass, and lips depending from the metal plate and embracing the sides of the seat-frame and provided with openings for the reception of said anchor-wire.

4. As a new article of manufacture, a metal reinforcing-plate for use in chair construction, the same comprising a body-portion having a plurality of wire-receiving holes, and, at opposite margins of said body-portion, depending lips designed to embrace the chair-frame, said lips having wire-engaging openings at their lower edges.

5. In a chair construction, the combination, with a seat or other frame-portion having a series of vertical holes arranged in a group and below the latter a transverse hole, of a frame-member consisting of a bunch of wire-strands all but one of which terminate in said vertical holes and the remaining wire extending beyond the companion wires and passed through the lower transverse hole to form an anchor.

6. In a chair construction, the combination with a seat or other frame-portion having a series of vertical holes arranged in a group and below the latter a transverse hole, and a reinforcing metal plate mounted upon the seat or other frame-portion and having holes corresponding with those of the latter and having depending marginal lips embracing said seat or other frame-portion, said lips having openings corresponding with the transverse opening of the latter, of a frame-member, comprising, a plurality of wire-strands bunched together, all of said strands, with the exception of one, terminating in the holes in the seat or other frame-member, and that remaining strand passing transversely through the lower transverse hole in the seat or other frame-member and received by the openings in the depending lips of the reinforcing-plate.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ARTHUR H. GREENLUND.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."