

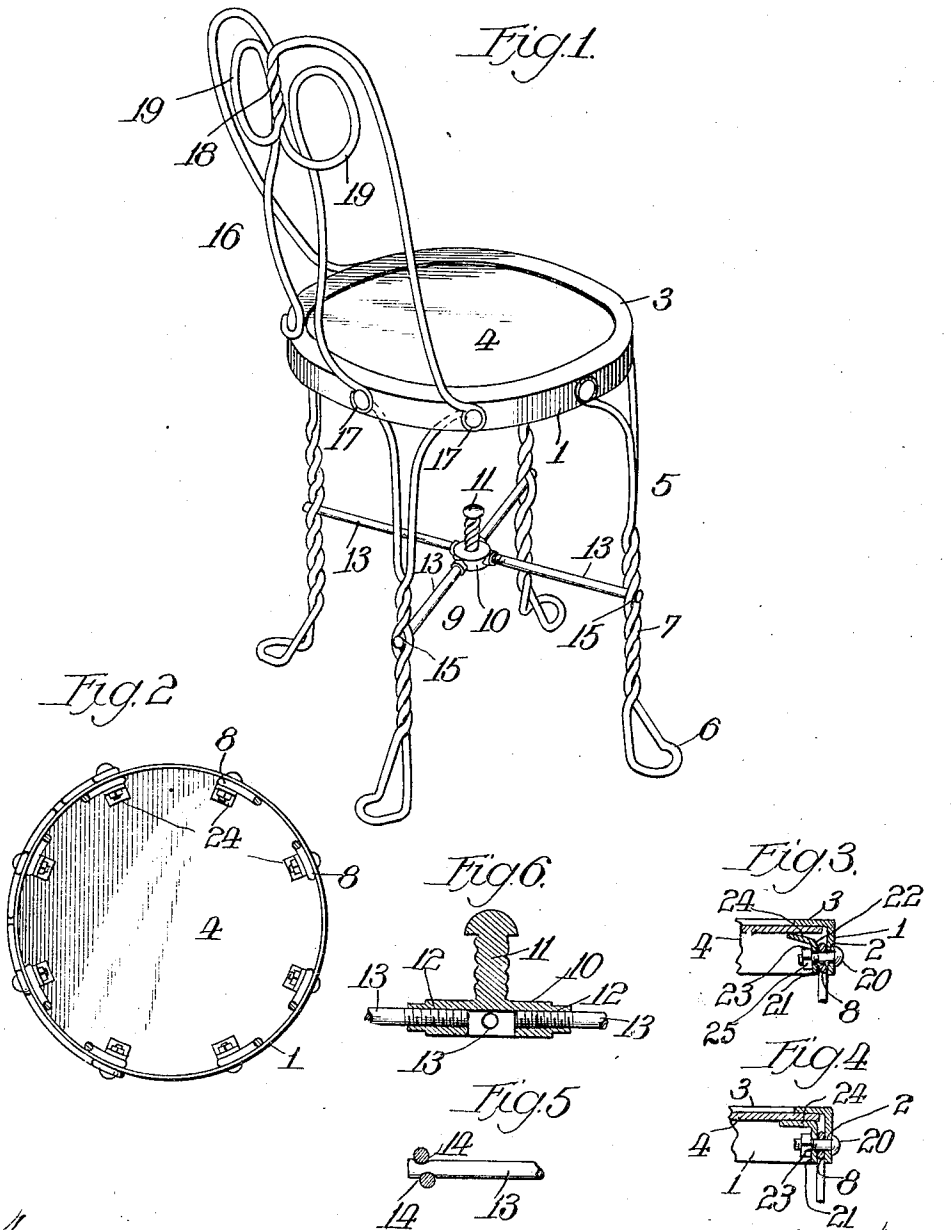
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F. L. WATTERS & I. LARSEN.

WIRE FURNITURE.

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UNITED STATES PATENT OFFICE.

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WIRE FURNITURE.

SPECIFICATION forming part of Letters Patent No. 792,370, dated June 13, 1905.

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To all whom it may concern:

Be it known that we, FREDERICK L. WATTERS and IVERT LARSEN, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Wire Furniture, of which the following is a specification.

This invention relates to wire furniture, and refers particularly to an improved means of fastening between the body and leg portions.

It further refers to the manner of forming the legs and to the means for bracing them.

It further refers to a hat-supporting leg upon a portion of the leg-bracing means.

It further refers to the manner of forming a chair-back and to the means of securing said back to the chair-body.

The invention further refers to the various improvements in the details of such furniture hereinafter more fully pointed out.

In the accompanying drawings, in which we have illustrated this invention in its application to a chair, Figure 1 is a perspective view of a chair embodying the features of our invention. Fig. 2 is an under side view, partially in section, of the body portion of said chair. Fig. 3 is a detail view illustrating the means of fastening between the legs and said body portion, the parts being loose. Fig. 4 is a similar view showing the parts in the tightened position. Fig. 5 is a detail view illustrating the manner of swaging or grooving the outer end of the brace-rod. Fig. 6 is a detail sectional view of the central portion of the leg-bracing spider.

In the construction of a chair embodying the features of this invention we provide a body-ring 1, having openings 2 in its periphery and at its upper edge an inturned annular flange 3. Within this body-ring and held in the upper part thereof directly under the flange 3 is a seat or top, of sheet metal, wood, or other suitable material. The chair-legs 5, in this instance four in number, are each formed from a single piece of wire doubled and the loops turned outwardly in the feet 6

at their lower ends and twisted together for a distance above said feet, as at 7. Above the twisted portion 7 the ends of the wire forming each leg diverge and at their upper ends terminate in eyes 8. Between the seat and the floor the legs are braced by means of a spider 9, the center or body portion 10 of which has an upwardly-extending peg 11, adapted to hold a hat. In its periphery the body portion is provided with radial openings 12, screw-threaded to receive the brace-rods 13, which rods at their outer ends are provided with the depressions 14 at opposite sides thereof, and are thus adapted to be inserted into an eye 15, formed by separating the twisted strands of the wire forming the legs about midway of the length of the twisted portion 7. The outer end of each of the rods 13 is inserted into one of these eyes and the wire forming the sides of said eye forced into the depressions 14 in said rod.

At the rear side the chair is provided with a back 16, formed of two pieces of wire. The ends of these pieces are bent to form eyes 17. From the body-ring these two back wires extend from opposite sides of the chair upwardly in a suitable curve, coming together and being united in the twisted portion 18, thence curving outwardly and describing the rings 19 and thence downwardly to the seat.

The legs 5 are secured to the body-ring by means of carriage-bolts 20, one for each opening 2 in the body-ring, through which opening and one of the eyes 8 at the upper ends of the legs said bolts extend. At the forward side of the chair the oval heads of the bolts lie upon the outer periphery of the ring 1. On their inner ends the bolts receive clamping-plates 21, each of which has a body portion 22, with a perforation 23 for receiving the bolt and with a wing 24 inclined with relation to said body portion at an angle greater than a right angle. These clamping-plates are placed upon each of the bolts 20 and the nut 25 turned upon the threads of said bolt. The wing 24 of the clamping-plate is in contact with the under side of the chair-seat 4, and as the nut 25 is drawn tight the clamping-plate

is drawn outwardly toward the body-ring 1, its wing being bent toward the body portion thereof, forcing the seat upwardly against the under side of the annular flange 3. The bolts
 5 at the rear side of the body-ring are slightly longer than those at the forward side, being adapted to pass through the eyes 17 of the back wires and hold the back firmly in position. The wires of the back 16 lie outside of the
 10 body-ring 1, their eyes 17 lying directly under the head of the bolts 20.

While we have illustrated our invention in its application to a chair, it is evident that tables and other articles of furniture may be
 15 made to embody many of the features of said invention, wherefore we desire to have it understood that we do not limit ourselves to the particular application shown and described nor to the details of construction hereinbefore
 20 set forth.

We claim as our invention—

1. In an article of furniture, in combination, a body-ring having an inturned annular flange; a seat or top adapted to lie in contact
 25 with said annular flange; a plurality of legs; a bolt and nut for securing each of said legs to said body-ring; and means on said bolts

adapted to force said seat or top upwardly into contact with the under side of said flange.

2. In an article of furniture, in combination, a body-ring having openings therein and an inturned annular flange; a seat or top adapted to lie in contact with said annular flange; a plurality of legs having eyes in their upper ends; bolts extending through said open-
 35 ings and said eyes; and a clamping-plate having a wing adapted to bear against the under face of said seat or top.

3. In a chair, in combination, a body-ring having peripheral openings and an inturned
 40 annular flange; a seat adapted to lie in said ring and in contact with said flange; legs having eyes at their upper ends; bolts adapted to extend through the peripheral openings in the ring and the eyes of said legs; and clamping-
 45 plates having openings adapted to receive said bolts and wings adapted to lie in contact with the under side of said seat.

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