

J. SALOMON.
WIRE CHAIR.

APPLICATION FILED MAR. 25, 1907. RENEWED FEB. 29, 1912.

1,041,355.

Patented Oct. 15, 1912.

Fig. 1.

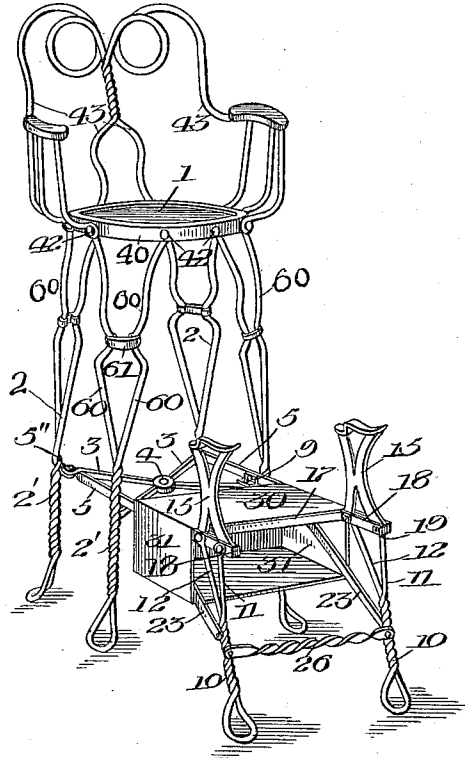


Fig. 3.

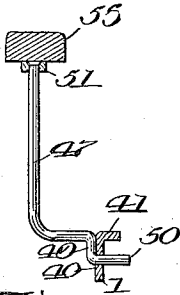


Fig. 4.

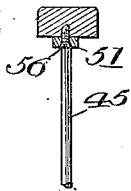


Fig. 2.

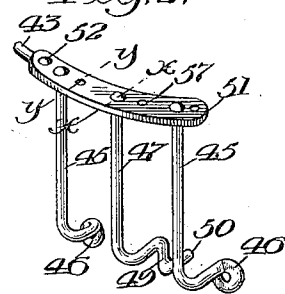
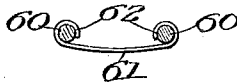


Fig. 5.



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UNITED STATES PATENT OFFICE.

JOSEPH SALOMON, OF CHICAGO, ILLINOIS.

WIRE CHAIR.

1,041,355.

Specification of Letters Patent.

Patented Oct. 15, 1912.

Original application filed January 27, 1905, Serial No. 242,877. Divided and this application filed March 25, 1907, Serial No. 364,405. Renewed February 29, 1912. Serial No. 680,592.

To all whom it may concern:

Be it known that I, JOSEPH SALOMON, a citizen of the United States of America, residing at the city of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Wire Chairs, of which the following is a specification.

My invention relates to that class of furniture in which the frame work is largely made of wire or small metal rods and which is commonly known as wire furniture. When such chairs are made with legs much elongated it is of the greatest importance that suitable stiffening means should be applied at proper parts, and that the several parts should be so constructed as to coöperate in the bracing of the chairs to give them the proper stability.

This application is a division of my pending application Serial Number 242,877, filed January 27, 1905, and it is the object of my invention herein set out to provide a structure by which chairs made in accordance therewith shall have a stiffness and rigidity otherwise unattainable without a greatly increased weight of metal.

The principles of my invention are illustrated in the drawings forming a part of this specification, in which—

Figure 1 shows a perspective view of a blacking chair; Fig. 2 shows the frame work of one of the arms; Fig. 3 shows a section of the arm foundation piece on the line $x-x$ with the finishing piece attached; Fig. 4 is a similar view on the line $y-y$, and Fig. 5 is a detail of a leg stiffening clamp.

Further describing my invention with reference to the drawings, in which like characters of reference denote like parts throughout: 1 is the seat and 2 are the legs of a wire chair, the latter somewhat longer than usual. They are twisted at their lower portions 2' and spread at the upper parts to form duplex members 60, which are attached to the seat as is usual in this class of construction, by securing them to the vertical flange 40 of the seat ring. The bracing of the lower parts of the legs, by means of the spider, having duplex arms 3 and a central clamp 4, is that shown in my former patent issued to me February 2, 1904, Number 751,419. The separated members of the legs 2'' form braces against lateral movement of the upper portion of the chair and the rigidity of the

leg structure is preferably secured by bringing the divergent members into somewhat close proximity to each other midway of the twisted portion and the seat, and at such narrowed part connecting them by a clamp 61, which may be of a thin and comparatively broad strip of metal. The ends thereof 62 should be bent around the wires forming the bracing members of the leg so as to embrace them closely and preferably completely to encircle them. In practice I form such clamp into the position stated by means of dies operated by a press and I use a flat or half oval section of metal, which is thus seated upon the wires so firmly that it will not twist or slip.

Chairs of the class described should be supplied with a suitable back and arms and these can be so constructed and applied as to still further stiffen the chair and add to its rigidity. The seat 1 is surrounded by a metallic ring comprising the vertical portion 40 and the horizontal flange 41, the latter being perforated to take the bolts 42 by which the legs 2 and the other portions of the chair may be attached to the said ring as desired. The back may consist of the wires 43, attached at their lower extremities by means of the bolts 42. Said wires may be centrally twisted and bent as shown, or into any other desirable and agreeable form, and the free ends may be attached to and supported by the arms as hereinafter described. The latter may consist of spindles 45 suitably bent at the lower extremities and having eyes 46 turned thereon so as to be attached to the seat ring by means of the bolts 42. In the central spindle 47 the positive attaching means may be dispensed with and the lower portion may have a shoulder 49 and projecting end 50, which may be inserted into a corresponding aperture in the seat ring so that the shoulder 49 will bear against the vertical portion thereof. The upper end of the arm spindles are secured to a foundation part 51 by being passed through apertures therein and then headed down into a countersunk portion of such apertures as shown in Fig. 3. A hole in the arm foundation provides means by which the free ends of the back may be secured by the rivet 52 or other desired means. A finishing strip 55 by which the arm is completed in appearance and convenience, of wood or other desirable material is fitted

to the foundation strip 51, and may be secured thereto by screws 56 passing thereinto through openings 57 in the foundation strip. The arm thus described being rigid 5 in the relation of all its parts to each other, as well as tied to the back as stated, is secured to the rim of the chair by bolts which are passed through the eyes 46, and I use the same bolts 42 for this purpose which secure 10 the bracing members of the legs to the seat ring. Said bracing members being placed inside the ring and the spindles of the stiffened arm above described being attached to the outside of the ring, the said 15 bolts hold the same in rigid relation to the chair as a whole and form a practically continuous construction of the leg members, the arm spindles and back.

Having thus described my invention, I 20 claim and desire to secure by Letters Patent, the following:

1. In a chair, the combination of a seat ring, rigidly formed arms provided with spindles, rear legs having separated duplex 25 portions, a back of wire having separated

upper and lower ends, means for securing the upper ends thereof to the arms, common means for securing the lower ends of the back and rear members of said legs to the ring, and common means for securing the 30 arm spindles and the front members of said legs to the ring.

2. In combination with the seat ring of a metal chair, legs formed of wire each having a lower twisted portion and an upper 35 portion comprising divergent wires, means for securing the upper ends of said wires to the seat ring, and clamps of flat metal having their ends bent so as to encircle and rigidly engage the said divergent wires of 40 each leg midway of their length.

In witness whereof, I have hereunto set my hand, this 18th day of March A. D. 1907, in the presence of two subscribing witnesses.

JOSEPH SALOMON.

Witnesses:

C. K. CHAMBERLAIN,
A. S. PHILLIPS.

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