

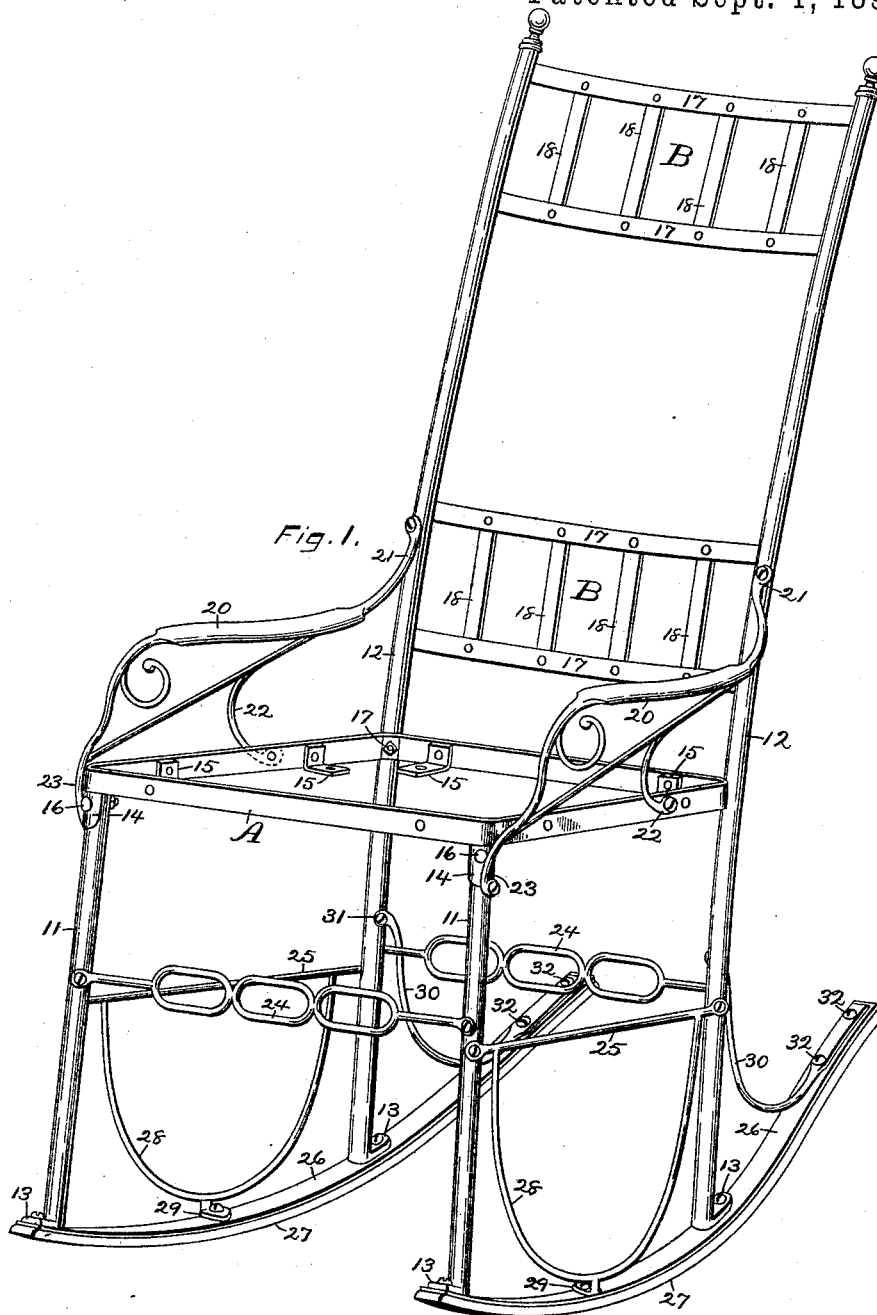
(No Model.)

2 Sheets—Sheet 1.

J. A. JUDD.
KNOCKDOWN CHAIR.

No. 458,808.

Patented Sept. 1, 1891.



Witnesses.

John Edwards Jr.
A D Thompson

Inventor.

James A. Judd.
By James Shepard.
Att'y.

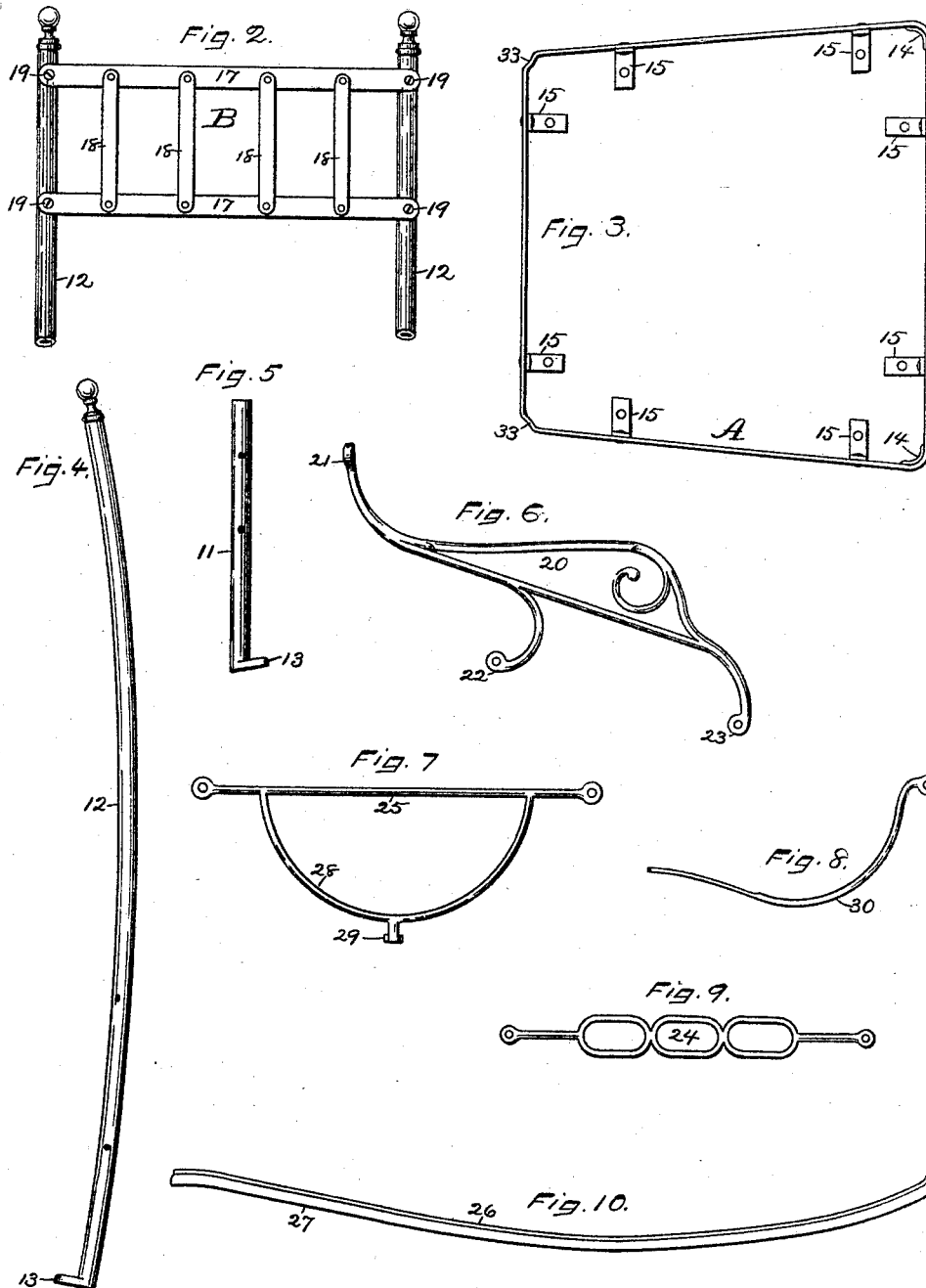
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UNITED STATES PATENT OFFICE.

JAMES A. JUDD, OF BRISTOL, CONNECTICUT.

KNOCKDOWN CHAIR.

SPECIFICATION forming part of Letters Patent No. 458,808, dated September 1, 1891.

Application filed August 18, 1890. Serial No. 362,305. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. JUDD, a citizen of the United States, residing at Bristol, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Knockdown Chairs, of which the following is a specification.

My invention relates to improvements in knockdown chairs; and the objects of my improvement are to produce a knockdown chair of a light and neat appearance, but of a substantial form; to make said chair of metal; to simplify the construction, and thereby lessen the cost; to conveniently arrange the parts for assembling and knocking down, and so that they shall occupy but a small space when knocked down.

In the accompanying drawings, Figure 1 is a perspective view of my chair. Fig. 2 is a rear elevation of the upper portion of the back, and Figs. 3 to 10, inclusive, are detached views of members thereof.

I make my chair of metal and principally of forged parts. I form the four legs of two front posts 11 11 (shown separately in Fig. 5) and two rear posts 12 12, (shown separately in Fig. 4,) which latter are long enough to form a support for the back. These posts are made of pipes or tubes and in a rocking-chair are provided with a foot-flange 13.

A designates the seat-frame, (shown separately in plan view in Fig. 3,) the same being formed of a flat bar, band, or plate bent into suitable form, with its ends welded together, so as to constitute a single piece. At the front corners I weld or otherwise secure the dependent lugs 14 to facilitate in attaching and holding the front posts 11, and at the rear corners I form outside seats 33, Fig. 3, for the rear posts 12. I also provide said seat-frame with several angle-pieces 15, riveted or otherwise secured to said frame, with one member extending inwardly to form lugs for supporting the seat, which may be of any ordinary construction, and set into the seat-frame. The front posts 11 are secured upon the inside of the dependent lugs 14 of the seat-frame A by means of the bolts 16, and the seat-frame is secured to the rear posts by means of bolts extending through said posts and seat-frame at the rear corners, the posts being upon the outside of the frame, and one

of the fastening-bolts 17 being shown in Fig. 1. This avoids fitting the seat around the rear posts, and by securing the front posts to the dependent lugs 14 they may be of less height than the top edge of the seat-frame, so as not to interfere with fitting the seat thereto and so that their upper ends are in the same plane as the top of the angle-irons, whereby they form supports for the seat in common with said angle-irons.

Near the top of the rear posts 12 I secure a back-section B, preferably composed of two horizontal bars 17 and vertical bars or slats 18, secured thereto and forming a detachable back-section, substantially as shown. The ends of the bars 17 rest upon the back of the posts and are perforated, whereby they may be secured thereto by means of screws 19, passing through said bars into threaded holes in the back of the posts. A similar back-section B may be secured to the posts at a point lower down, as shown.

20 designates the arms, one of which is shown separately in Fig. 6, the same being in the form of a bracket or brace and provided with the perforated arms 21 22 23 for being secured by screws respectively to the front of the rear posts, to the seat-frame at one side, and to the upper end of the front post, as shown, thereby furnishing a suitable arm and firmly bracing the parts. The legs or posts are further supported by means of the front and rear cross-ties 24, one of which is shown separately in Fig. 9, and two side cross-ties 25, one of which is shown separately in Fig. 7. These may be plain straight rods or they may be formed in any ornamental design. Their ends are perforated and they are secured to the posts by means of screws which pass through their ends and into threaded holes in the posts.

In a rocking-chair I form the rocker-iron of a band or flat plate of suitable width and length, as at 26, and I secure it to the posts by screws passing through the foot-flanges 13 into threaded holes in said rocker-iron. The under side of this rocker-iron I cover with a shoe 27, which may be formed of wood and secured by screws, or it may be formed of rubber and cemented to the under side of the rocker-iron. I also form an arch-brace 28, with its upper ends welded to the cross-ties

25, while its lower middle portion is provided with a lug 29 to rest upon the top of the rocker-iron midway of the front and rear posts, and which is secured thereto by a screw 5 which passes through said lug into a threaded hole in the rocker-iron. I also furnish a brace 30 for the rear end of each rocker, one of said braces being shown separately in Fig. 8. I secure the upper end of this brace to the 10 rear post by means of screws, as at 31 in Fig. 1, while its rear end is secured to the rocker-iron by means of screws 32, Fig. 1. I prefer to make all of the screws alike, so that they are interchangeable and so that they may be 15 duplicated if lost, and because they are duplicates I consider it unnecessary to designate all of them by reference letters or figures. The back-sections B B or either of them may be upholstered, if desired; but the manner of 20 upholstering the chair is no part of my invention. The entire chair is thus secured together by screws and bolts, so that it may be readily taken apart and packed in a trunk or other receptacle for transportation and readily 25 set up again when desired.

In knocking down the chair the back-sections B will be detached from the posts by removing the screws 19, so that said back-sections will each be separate from the other 30 parts. The posts will be in separate detached parts, as shown in Figs. 4 and 5. The detached seat-frame will be in the form shown in Fig. 3, the detached arms in the form shown in Fig. 6, the cross-ties in the forms shown in 35 Figs. 7 and 9 for a rocking-chair, and for a non-rocking chair the side ties may be, like the upper portion of Fig. 7, without the brace 28, the rear braces will be in the form shown in Fig. 8, and the detached rockers in the 40 form represented by side elevation in Fig. 10. These several parts constitute the entire chair, less the screws and bolts, which are of

ordinary construction. If the chair is upholstered, the seat may remain in the seat-frame and the pads or coverings for the back- 45 sections B can remain thereon when they are detached.

While I have shown and described a rocking-chair, I intend to accompany it by other chairs without rockers, which will require no 50 change in the construction shown and described, except the omission of the rockers, the braces 28 and 30, and the foot flanges 13.

I claim as my invention—

1. In a knockdown chair, the herein-described seat-frame, consisting of an endless 55 band having post-seats on the outside at its rear corners, angle-irons 15, secured to the inside of said band, and dependent lugs secured to the front corners of said band, one surface 60 of each of said lugs constituting a post-seat on the inside at the front corners, whereby the upper end of the front legs may be, when secured to said lugs, in the plane of said angle-irons, substantially as described. 65

2. The herein-described knockdown chair, consisting of a seat-frame in the form of an endless band having post-seats on the outside at its rear corners and on the inside at 70 its front corners, the four posts attachable to and detachable from said post-seats, the two rear posts extending upwardly on the outside of said frame to form a support for the back, a back-section B, having a frame-like form, and made attachable to and detachable from the 75 upper portion of said posts, and the several attachable and detachable cross-ties secured to said posts by screws, substantially as described, and for the purpose specified.

JAMES A. JUDD.

Witnesses:

JOHN WINSLOW, Jr.,
PRESTON G. DRESEBACH.