(No Model.)

A. D. & W. K. TRUESDELL.

FOLDING CHAIR.

No. 564,575. Patented July 21, 1896.

Fig. 1.

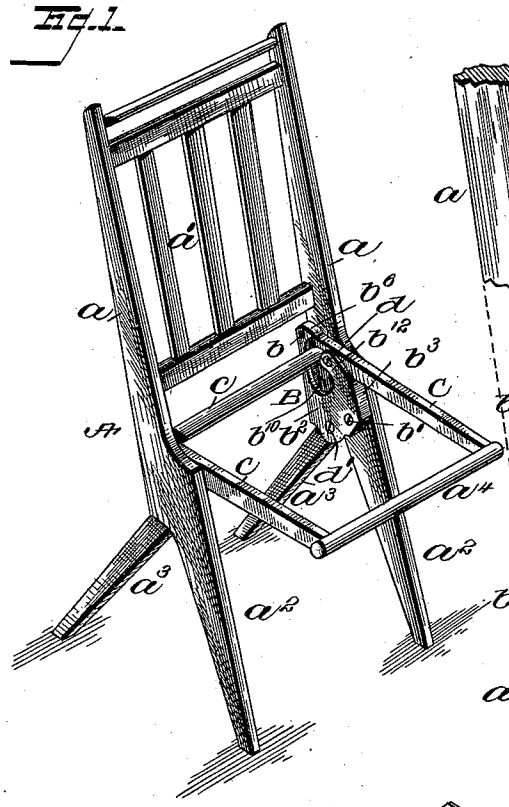


Fig. 2.

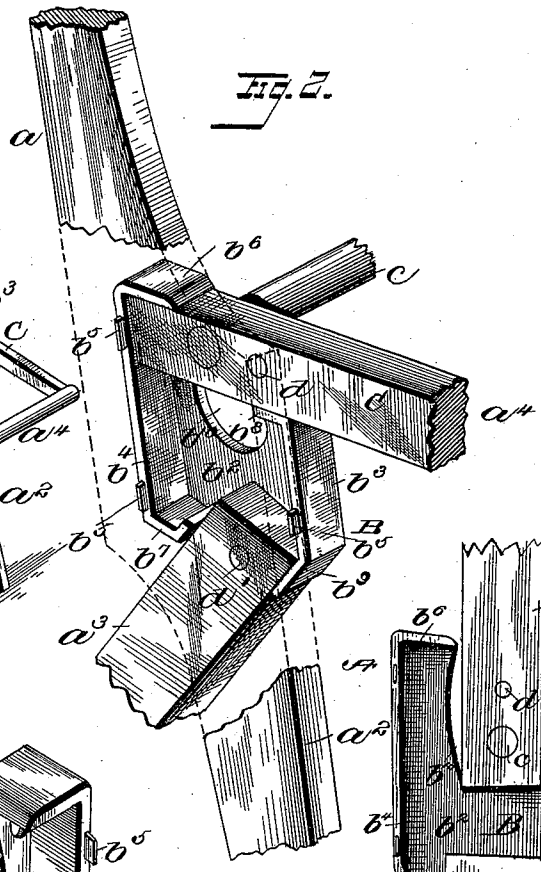


Fig. 3.

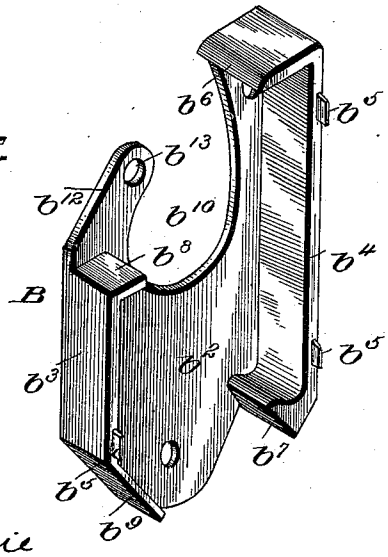
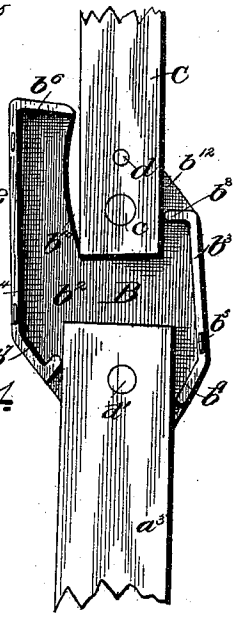


Fig. 4.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE

ALLISON D. TRUESDELL AND WALTER K. TRUESDELL, OF WARREN, OHIO.

FOLDING CHAIR.

SPECIFICATION forming part of Letters Patent No. 564,575, dated July 21, 1896.

Application filed March 20, 1896. Serial No. 584,044. (No model.)

To all whom it may concern:

Be it known that we, ALLISON D. TRUESDELL and WALTER K. TRUESDELL, of Warren, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Folding Chairs; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention contemplates certain new and useful improvements in folding chairs, and has for its object the production of a simple and inexpensive hinge box or casting for the movable or folding parts of the chair.

The invention comprises the novel features of construction and arrangement of parts substantially as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective of a chair provided with our improvement, parts being removed. Fig. 2 is a similar, but enlarged, view with parts omitted. Fig. 3 is a view of the hinge-box detached. Fig. 4 is a detail view illustrating the connection between the hinge-boxes and the pivoted legs.

Referring to the drawings, A designates a chair, the parallel obliquely-arranged sides a of which form portions of the back a' and constitute the front rigid legs a^2. The rear legs a^3 and the seat a^4 are pivoted so that they may be folded inward, the former against the front legs a^2 and the latter up against the back a'.

B B designate two hinge boxes or castings attached to the inner surface of the sides a by upper and lower screws b b'. Each box consists of a plate b^2, having front and rear vertical flanges b^3 b^4, the edges of which abut against the sides a and to which the box is additionally secured by short teeth b^5. The ends of the rear flange are bent or provided with angular branches to form upper and lower shoulders b^6 b^7, while the front flange b^3, which is much shorter in length than the flange b^4, is formed with upper and lower shoulders b^8 b^9. The plate b^2 has an upper curved cut-out b^{10} and a curved or overhanging finger b^{12}, in the end of which is formed a hole b^{13}.

The inner ends of the side bars C of the seat a^4 are extended into the boxes B at the upper ends of the latter and pivoted by bolts d, inserted through holes b^{13}, in such manner that when the seat is lowered said side bars will rest upon the upper shoulders b^8 and bear against the under side of the shoulders b^6, said shoulders being parallel, but on different planes. These side bars at their inner ends are connected by cross-bars c, which extend through the curved cut-outs b^{10}. The latter enable the pivoted side bars to be thus connected and allow of the raising and lowering of the seat, the said cross-bar being free to move in said cut-out of the hinge-boxes. The upper ends of legs a^3 are extended into the lower ends of the boxes and pivoted by bolts d'. When said legs are extended rearwardly, they bear against the parallel surfaces of shoulders b^7 b^9. The spaces between the upper shoulders b^6 and b^8 and between the lower shoulders b^7 and b^9 permit the seat to be raised and folded against the back of the chair and the folding of the rear legs against the front legs.

It will be seen that a hinge box or casting thus constructed is extremely simple and inexpensive, and by means thereof a safe and durable connection between the hinged and rigid portions of a chair is obtained.

We claim as our invention—

1. A folding chair having parallel sides, hinge-boxes attached to said sides having upper openings and front and rear flanges formed with upper parallel shoulders on different horizontal planes, and the seat having its side bars pivoted in said boxes and designed to bear against said shoulders when said seat is lowered, as set forth.

2. A folding chair having parallel sides forming front legs, hinge-boxes attached to said sides having lower openings and front and rear flanges formed with lower opposite shoulders, and the rear legs pivoted in said boxes and designed to bear against said shoulders when extended, as set forth.

3. A folding chair having parallel sides, hinge-boxes attached to said sides having up-

per and lower openings, upper parallel shoulders on different horizontal planes, and lower opposite shoulders, the seat having its side bars pivoted in said boxes and designed to bear against said upper shoulders when said seat is lowered, and the legs also pivoted in said boxes and designed to bear against said lower shoulders, substantially as set forth.

4. In a chair having parallel sides and a pivoted seat and legs, hinge boxes or castings consisting each of a plate having front and rear flanges formed with upper and lower shoulders, screws for holding said plates to said parallel sides, the side bars of said seat and the rear legs being extended between said upper and lower shoulders, respectively, and pivot-bolts therefor, substantially as set forth.

5. A folding chair having side bars, hinge-boxes secured to said side bars having outer plates provided with upper curved cut-outs, overhanging fingers formed adjacent thereto the seat having side bars pivoted to said fingers, and cross-bars connecting said side bars and extending through said cut-outs, as set forth.

6. A folding chair having side bars, hinge-boxes secured to said side bars consisting each of a plate having an upper curved cut-out, an upper overhanging finger, and front and rear flanges provided with shouldered ends, the seat having parallel side bars pivoted at their rear ends to said overhanging finger and designed to fit between the upper shouldered ends of said flanges, and the cross-bar connected at its ends to said side bars and extended through said cut-outs, substantially as set forth.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

ALLISON D. TRUESDELL.
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Witnesses:
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