J. A. WARE.

FOLDING-CHAIR.

No. 187,944. Patented Feb. 27, 1877.

Fig. 1.

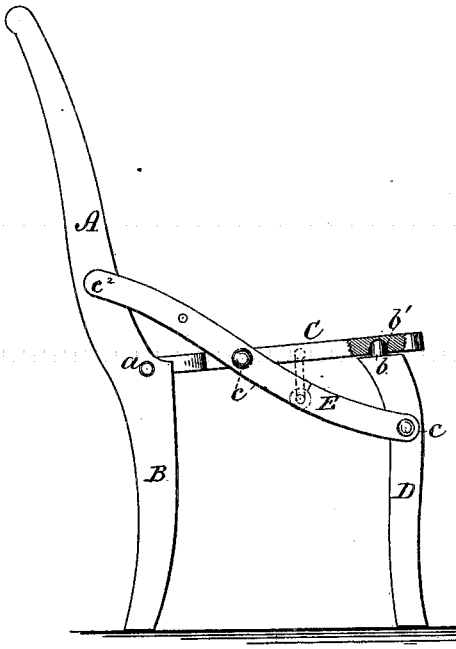


Fig. 2.

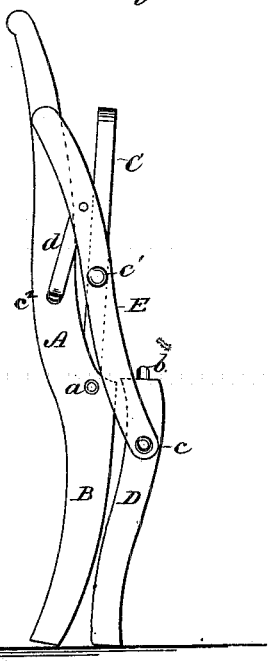
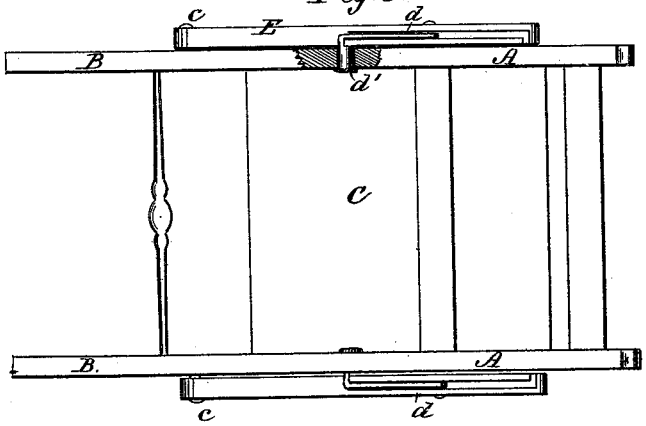


Fig. 3.



WITNESSES:

W. W. Hollingsworth

Edw. W. Byrn.

INVENTOR:

John A. Ware

BY Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN A. WARE, OF MORRIS, ILLINOIS.

IMPROVEMENT IN FOLDING CHAIRS.

Specification forming part of Letters Patent No. **187,944**, dated February 27, 1877; application filed December 16, 1876.

To all whom it may concern:

Be it known that I, JOHN A. WARE, of Morris, in the county of Grundy and State of Illinois, have invented a new and Improved Folding Chair; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a side elevation of the chair disposed for use, partly in section, and with a modification of the toggle-arms shown in dotted lines. Fig. 2 is a side elevation of the chair when folded, but supported upon its legs. Fig. 3 is a plan view, partly in section, of the chair when folded and laid down with its rear side up.

My invention relates to certain improvements in folding chairs; and it consists in a chair having the rear legs and back made in one piece, with a seat hinged to the same at the rear and free to fold upwardly at its front, in connection with which elements are arranged a set of front legs with tenons at their upper ends, which enter mortises in the chair-seat, the said front legs being connected with the seat and back by means of side braces pivoted to the front legs and the middle part of the seat, and the back of the chair, and provided with an upwardly-folding toggle-joint, whereby the parts of the chair may be folded compactly, and in such manner as to stand alone upon its four legs, as hereinafter more fully described.

In the drawing, A represents the back of the chair, whose side bars are extended to form the rear legs B. C is the seat, which is cut away on the sides at the rear, and is hinged or pivoted at these points between the back or rear legs of the chair at *a*. D are the front legs, which are rigidly fastened to each other, and are provided at the top with tenons *b*, which enter corresponding recesses or mortises *b'* in the under front edge of the seat, to hold the same stiffly in position when disposed for use. E are the side braces, which are pivoted in front to the front legs at *c*, and extending rearwardly and upwardly are pivoted to the middle portion of the seat at c^1, and also to the back at c^2, a toggle-joint being formed in the said braces between the points c^1 c^2, which permit the upward bending of the brace and the folding of the parts of the chair. This toggle-joint is formed by recessing the under side of the brace, and pivoting therein a metallic bar, *d*, which latter is at its rear end bent at right angles, and then bent around in tubular form, as at *d'*, which portion passes through the sides of the back of the chair to form pivots, upon which the bars move without separate devices for this purpose.

As a modification of my invention I may form the toggle-joint or stiffening device in the brace below the seat, as indicated in dotted lines, Fig. 1, and connect the seat with the same by means of a link or other equivalent device.

With the chair constructed as thus described it will be seen that the chair can be folded compactly and with the bottom of all its legs in the same plane, thus enabling the chair to stand alone even when folded.

Having thus described my invention, what I claim as new is—

1. The combination, with the back and rear legs A B, of the seat C, pivoted to the same at *a*, and having recesses b^1, the front legs D having tenons *b*, and the side braces E, pivoted to the front legs at *c*, to the seat at c^1, and to the back at c^2, and having an upwardly-folding toggle-joint, substantially as and for the purpose described.

2. The combination, with the back A, of the bar *d*, bent at right angles and then in tubular form, *d'*, to form a pivot, substantially as and for the purpose described.

JOHN A. WARE.

Witnesses:

THOS. G. SLOAN,

CHAS. S. HAMILTON.