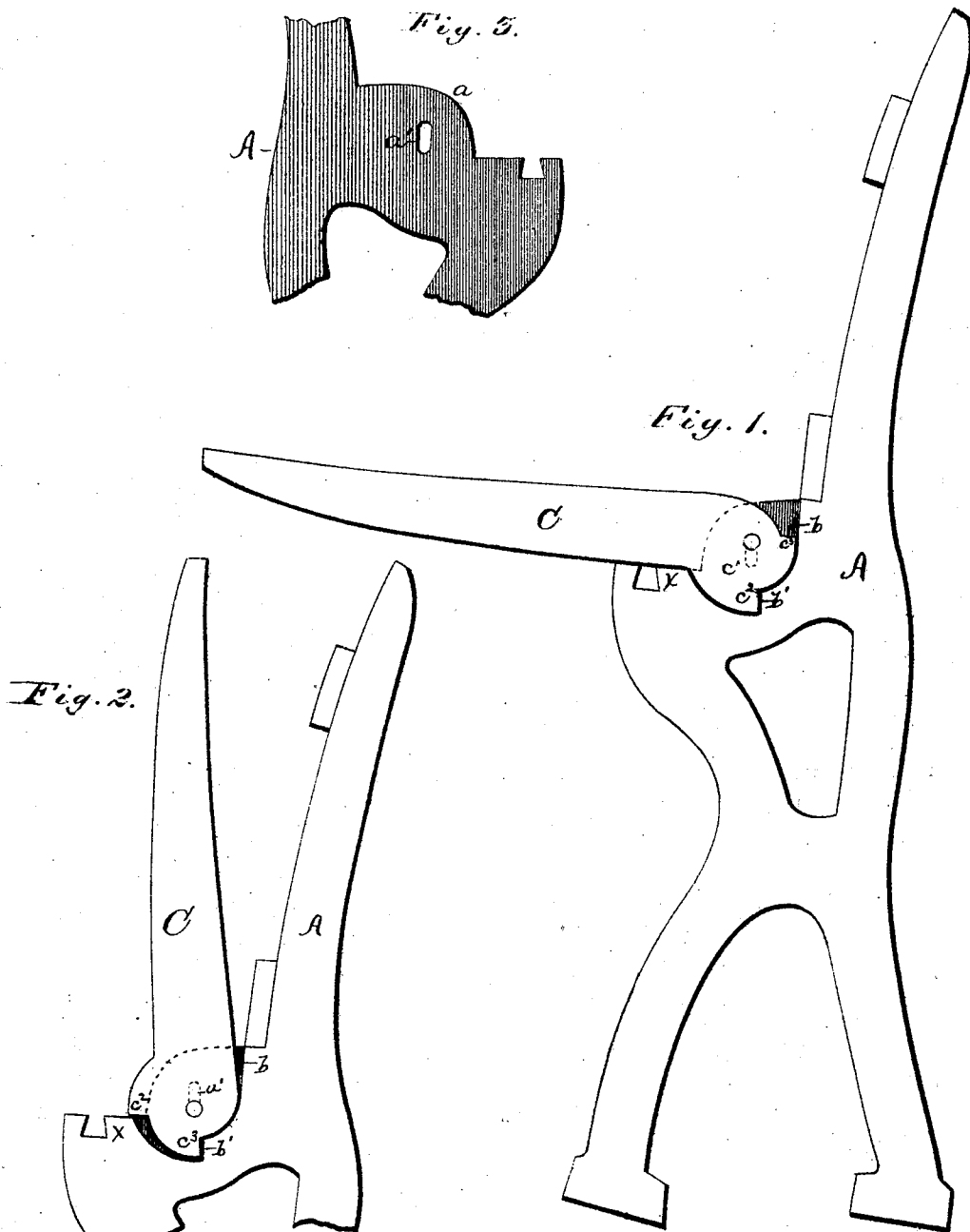


W. A. SLAYMAKER.

Improvement in Hinges for Seats.

No. 121,259.

Patented Nov. 28, 1871.



Witnesses.
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J. J. Hayes.

Inventor:
W. A. Slaymaker by
H. W. Beadle, atty.

UNITED STATES PATENT OFFICE.

WILLIAM A. SLAYMAKER, OF ATLANTA, GEORGIA.

IMPROVEMENT IN HINGES FOR SEATS.

Specification forming part of Letters Patent No. 121,259, dated November 28, 1871.

To all whom it may concern:

Be it known that I, WILLIAM A. SLAYMAKER, of Atlanta, in the county of Fulton and State of Georgia, have invented a new and useful Improvement in Hinges for Seats; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention is an improvement upon the hinge-joint of seats; and consists in certain details of construction which will be fully described hereinafter.

In the drawing, Figure 1 represents a side elevation of the end of a seat-frame with the arm turned down in a position to be used for sitting purposes. Fig. 2 represents a partial side elevation with the arm elevated, and Fig. 3 a partial view in elevation of the inner side of the frame.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A represents one end of a seat-frame constructed substantially as shown and hereinafter described. The feature deemed to be novel is the specific construction of the part adapted to receive the end of the hinged arm for supporting the seat. *a* represents a projecting ear, which is provided with the vertically-elongated slot *a'*, as shown. This ear is preferably located upon one side of the frame in such manner as to leave a corresponding recess, *b*, upon the other side, which recess is provided with a notch, *b'*, as shown. C represents the seat-arm, the rear end of which is provided with a recess corresponding to the ear *a*, and an ear, *c'*, corresponding with the recess *b*. The ear *c'* is provided with two distinct projections, *c²* *c³*, of corresponding form, each of which is adapted to rest in the notch *b'*. The arm C is secured to the frame by means of a pin passing through the arm and the elongated slot *a'*, as shown. In addition to the construction described the arm C is also adapted to rest,

when in position to be used for sitting purposes, upon the projecting portion *x* of the frame A. It therefore follows that when the seat is in use the strain upon the arm is borne by three distinct points of support—that is, the projecting portion *x* of the frame, the notch *b'*, against the side of which bears the projection *c²*, and the upper edge of the slot *a'*, against which bears the pin which unites the arm to the frame. By this means the pressure is so divided that no part bears undue strain.

When it is desired to raise the seat for the purpose of turning it back out of the way the operation is as follows: The seat-arm is thrown back in the usual manner. When it has been carried nearly to a vertical position the projection *c³* of the arm falls into the notch *b'*, a slight vertical movement being permitted by the slot *a'*, by which means the arm is securely held from falling forward, as the projection *c²* bears against the rear side of the notch *b'* and prevents any movement in a forward direction. When it is desired to turn down the seat, the arm *c'* should be raised slightly in order to disengage the projection *c³* from the notch *b'*, when, of course, it will be free to fall.

It will be observed that the hinge of the arm has in effect two centers, one of which is used when the arm is down and the other when it is up. This special construction is very simple, and yet is effective and convenient in its action.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The frame A, with ear *a* having the slot *a'*, and recess *b* with notch *b'*, in combination with the arm C having the recess *c*, ear *c'* with projections *c²* *c³*, as and for the purpose set forth.

This specification signed and witnessed this 25th day of September, 1871.

Witnesses:

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S. B. SPENCER,

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