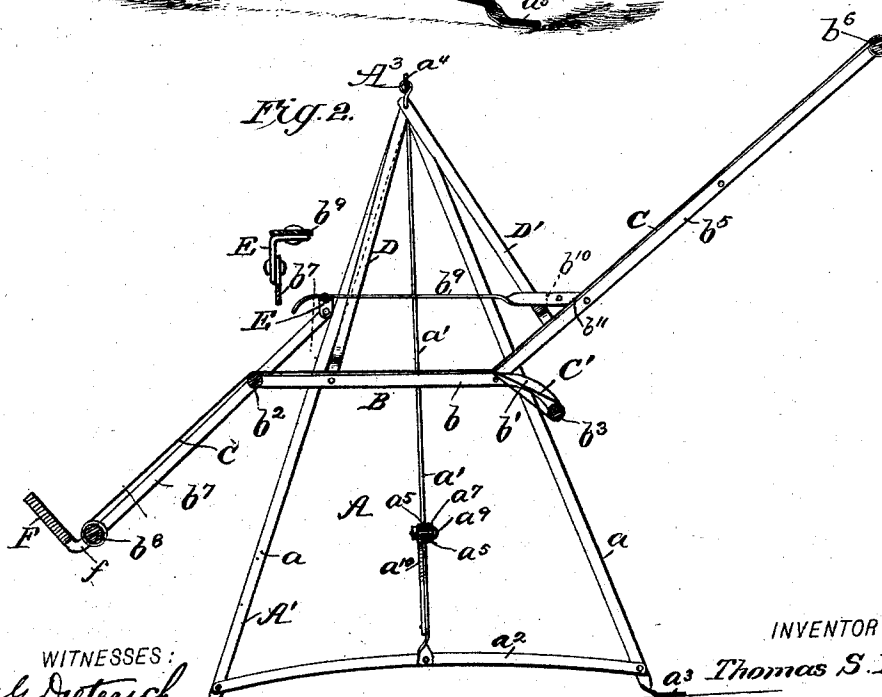
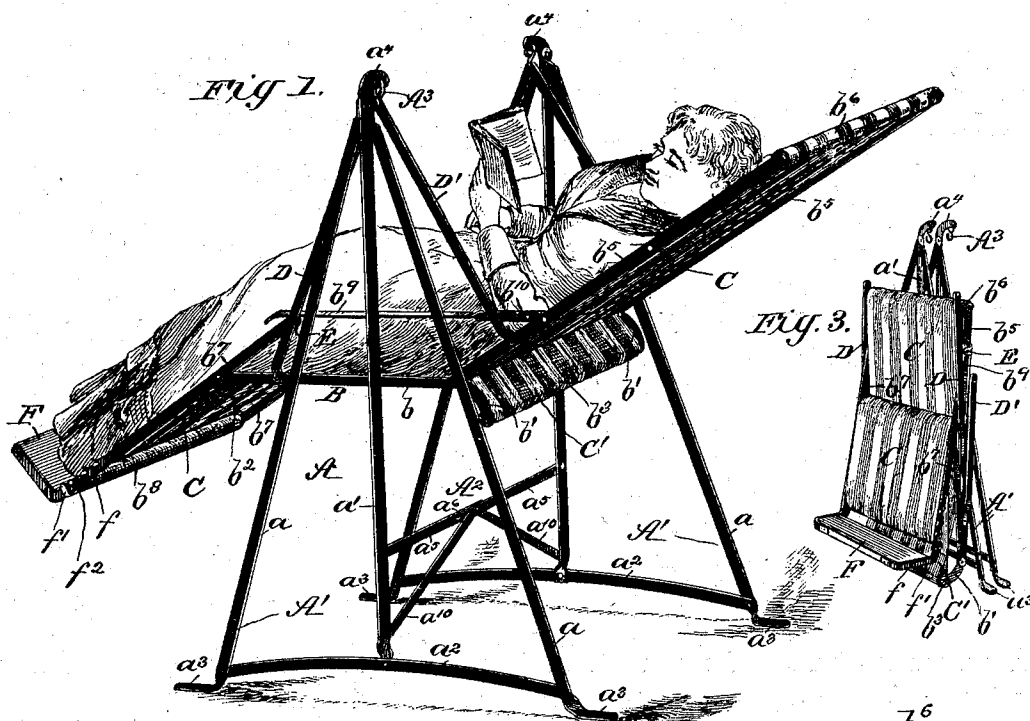


(No Model.)

T. S. KING.  
CHAIR.

No. 505,832.

Patented Oct. 3, 1893.



WITNESSES:  
*Fred G. Dieterich*  
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# UNITED STATES PATENT OFFICE.

THOMAS S. KING, OF CINCINNATI, OHIO.

## CHAIR.

SPECIFICATION forming part of Letters Patent No. 505,832, dated October 3, 1893.

Application filed May 28, 1892. Serial No. 434,829. (No model.)

### *To all whom it may concern:*

Be it known that I, THOMAS S. KING, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Chairs, of which the following is a specification.

This invention relates to a combined folding and swinging chair, the object of my invention being to provide a cheap, simple and safe contrivance of this character which can be quickly and easily set up or taken down and when not in use can be folded and packed in a very small space.

With this object in view my invention consists in the peculiar construction of the several parts and their novel combination or arrangement all of which will be fully described and pointed out in the claim.

In the drawings forming a part of this specification Figure 1 is a perspective view of my improved chair in use. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a perspective view showing the manner of folding and packing the chair.

In carrying out my invention, I employ a portable knock down supporting frame A, and an adjustable folding chair B suspended from the frame and free to swing therein.

The frame A consists of two upright standards A' connected near their lower ends by a cross brace A<sup>2</sup>. The uprights are each composed of the oblique side bars *a*, the vertical bar *a'*, and the bottom bar *a<sup>2</sup>*, said bottom bar connecting the lower ends of the side bars, the upper ends of the side bars being secured to the central bar upon opposite sides of the same, and the lower end of this central bar is secured to the center of the bottom bar, thus providing a triangular standard having a central bracing rod. The bars *a*, *a'* and *a<sup>2</sup>* are all formed of flat metal and the central bar *a'* is arranged at right angles to the side and bottom bars, and in order to accomplish this the side bars are twisted at their upper ends and the central bar at its lower end as clearly shown. This construction greatly strengthens the upright standards. The lower ends of the side bars are bent to provide feet *a<sup>3</sup>* and the upper ends of the central bars are curved inward as shown at *a<sup>4</sup>* and perforated to receive an open link

or hook A<sup>3</sup>, upon which the chair is hung as explained hereinafter.

In order to steady the two upright standards A' I provide the cross brace A<sup>2</sup> said brace consisting of two horizontal bars *a<sup>5</sup>* pivoted at their outer ends to the central bars *a'*, and provided with lugs or hooks *a<sup>6</sup>* at their inner ends, and near said ends are produced apertures to receive the hooks *a<sup>6</sup>*. The inner ends of the horizontal bars are adapted to overlap as shown the apertures receiving the lugs or hooks *a<sup>6</sup>* upon the opposite bar. Other apertures *a<sup>7</sup>* formed in the horizontal bars register with each other and receive a bolt *a<sup>9</sup>* which connects the bars. The horizontal bars *a<sup>5</sup>* are braced by means of oblique bars *a<sup>10</sup>* pivoted at the outer ends to the central bars *a'* and connected at their inner ends with the horizontal bars by means of the bolt *a<sup>9</sup>*.

The frame of the chair B is constructed of flat metal the same as the uprights and comprises a seat frame, a back frame, and drop frame pivoted to the opposite ends of the seat frame.

The seat frame is constructed of the side bars *b* the rear ends of which are curved downward as at *b'*, and the front and rear cross bars *b<sup>2</sup>* and *b<sup>3</sup>* respectively, connecting the ends of said bars.

The back frame consists of the side bars *b<sup>5</sup>* pivoted at their lower ends to the side bars of the seat frame, forward of their downwardly bent ends, and the top cross bar *b<sup>6</sup>* connecting the upper ends of the side bars, said cross bar *b<sup>6</sup>* being similar in construction to the cross bars *b<sup>2</sup>* and *b<sup>3</sup>*.

The drop frame consists of the side bars *b<sup>7</sup>* pivoted intermediate their ends to the forward ends of the seat bars, the lower ends of said side bars *b<sup>7</sup>* being connected by means of a bottom cross bar *b<sup>8</sup>*, and to the upper ends of the bars *b<sup>7</sup>* are connected the forward ends of the arms *b<sup>9</sup>* the rear ends of said arms being connected with the side bars of the back frame by means of a pivotal bolt, the arms *b<sup>9</sup>* being twisted near their rear ends and passed between the two back side bars.

The back, seat, and drop, frames are covered by a single piece of cloth C, stretched over said sections and wound at its opposite ends upon the top and bottom cross bars, and

it will be observed that the cloth C passes forward of the rear cross bar of the seat section, and in order to maintain the cloth taut I provide a loop or fold of cloth C' which is passed around the rear cross bar and secured at its ends to the rear or under side of the cloth C at the juncture of the seat and back sections. By this construction it will be seen that it is impossible for the cloth to sag at the back or in the seat.

The chair B is suspended between the uprights by means of the hanger bars D and D', pivoted to the seat and back frames respectively, said hanger bars having apertures at their upper ends which engage the hooks or open links attached to the uprights and thus support the chair between the uprights and render it capable of a rocking or swinging movement.

The chair is readily convertible into a lounge or bed, and it will be observed that I provide a novel means of connection between the arms and the side bars of drop frame. This connection consists of a plate E bent to form a right angle, one leaf of the plate being pivotally secured to the side bar, and to the other leaf is pivoted the forward end of the arm, thus enabling the arm to have a vertical and horizontal movement, which is quite necessary in folding the chair for packing.

A footrest F is usually employed in connection with my improved swinging chair said foot rest having the notched end bars *f* connected therewith, and to the ends of the drop frame are secured the hooks *f'*, and a short distance above said hooks are secured the studs *f<sup>2</sup>*, the notches in the end bars *f* being adapted to engage said studs while the hooks *f'* receive and support said bars in their adjusted positions.

From the above it will be seen that I provide a simple and efficient folding and swinging chair, and when not in use this chair can be detached from the frame and folded up as

shown in Fig. 3 and if desired the ends of the brace bars may be separated and folded back against their respective uprights.

In order to fold the chair into a small space, the arms are detached at their rear ends and swung horizontally across the seat section. The back section is then folded down upon the seat section, and the drop section turned up beneath the same. The suspending bars are then detached from the hooks and the chair removed from the supporting frame. The brace connections are then disconnected and turned up against their respective standards. The standards are then placed side by side and the folded chair rested against the same. The foot board may or may not be detached as desired.

A stop plate *b<sup>10</sup>* is secured upon the arm *b<sup>9</sup>* near its rear end, said plate having its lower face cut away or inclined as shown at *b<sup>11</sup>*. The purpose of this plate is to limit the motion of the back and prevent it moving too far forward or backward. When moved forward, the side bar of the back will contact with the rear end of the plate, and when moved backward the said bar will contact with the inclined face, as clearly shown. The entire device can then be packed in a very small space.

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

The combination with the side frames, of the seat, drop and back sections, the arms readily detachable from the back section, the right angled plates, having their vertical members pivoted to the upper ends of the drop section, the forward ends of the arms being pivoted to the horizontal members of the same substantially as shown and described.

THOS. S. KING.

Witnesses:

THOMAS S. ROBERTS,  
SAML. B. WILLIAMSON.