

No. 827,417.

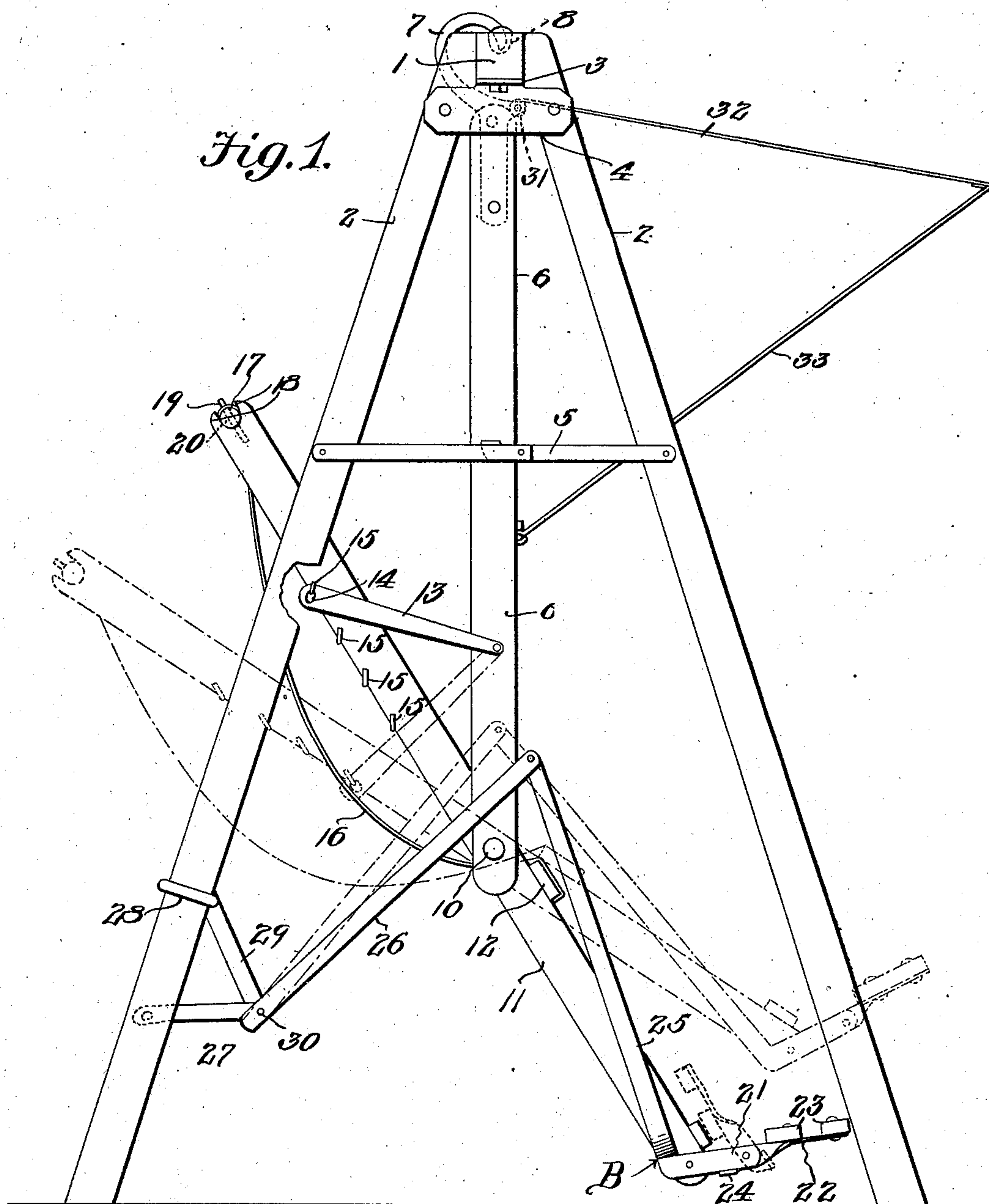
PATENTED JULY 31, 1906.

S. F. CALBECK & S. ALDER.

HAMMOCK CHAIR.

APPLICATION FILED DEC. 11, 1905.

2 SHEETS—SHEET 1.



WITNESSES:
E. F. Stewart
Wm. Ragger

Samuel F. Calbeck
Samuel Alder and INVENTORS
By *Chas. Snow & Co.*
ATTORNEYS

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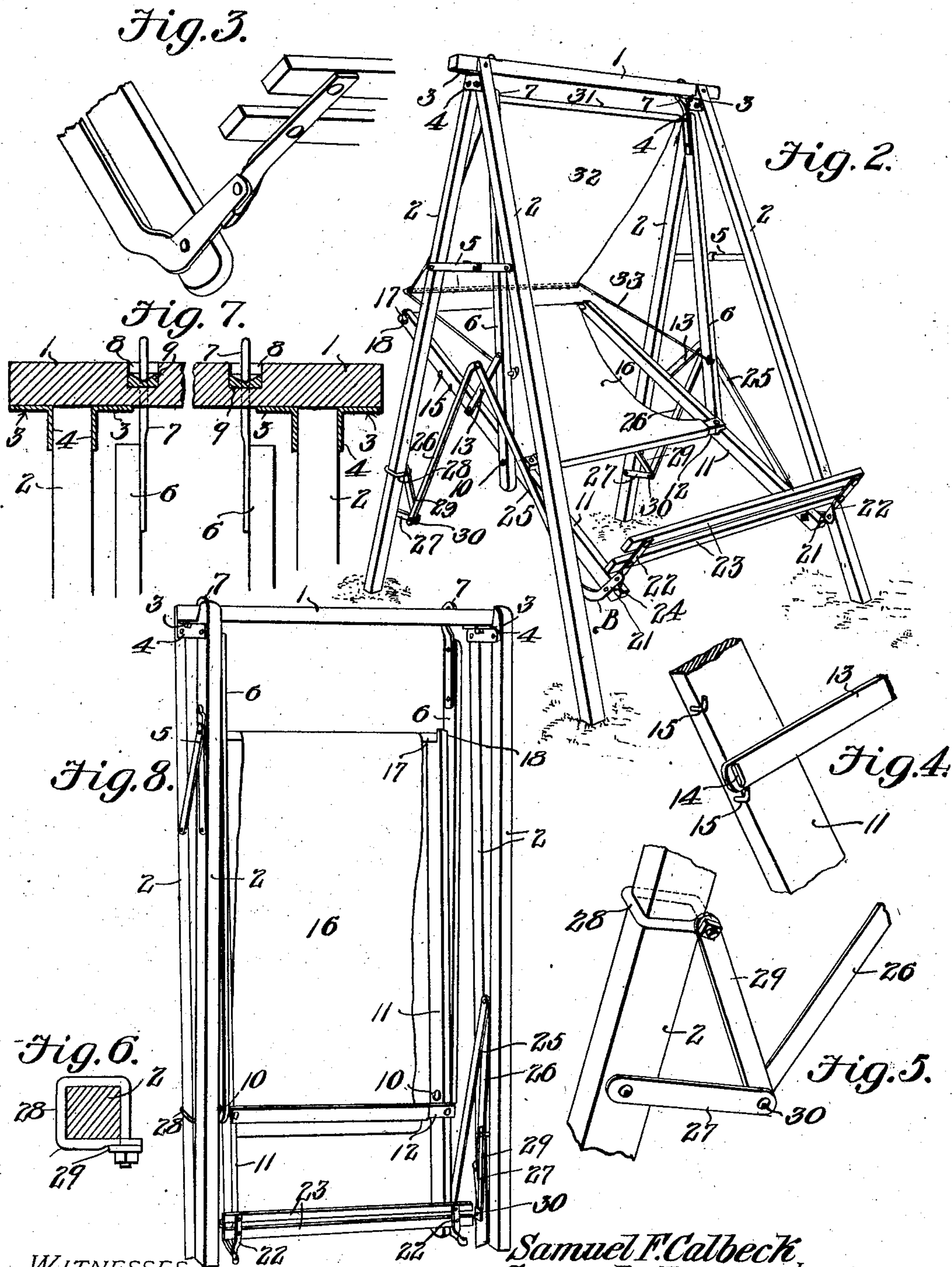
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UNITED STATES PATENT OFFICE.

SAMUEL F. CALBECK AND SAMUEL ALDER, OF REDLANDS, CALIFORNIA.

HAMMOCK-CHAIR.

No. 827,417.

Specification of Letters Patent.

Patented July 31, 1906.

Application filed December 11, 1905. Serial No. 291,314.

To all whom it may concern:

Be it known that we, SAMUEL F. CALBECK and SAMUEL ALDER, citizens of the United States, residing at Redlands, in the county of San Bernardino and State of California, have invented a new and useful Hammock-Chair, of which the following is a specification.

This invention relates to swinging chairs or hammock-chairs; and it has for its object to simplify and improve the construction and operation of this class of devices.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a side elevation showing the improved hammock-chair in position for operation. Fig. 2 is a perspective view of the same. Fig. 3 is a perspective detail view showing one end of the foot-rest and the supporting means for the same. Fig. 4 is a detail perspective view showing one of the adjusting-links for the chair-frame and related parts. Fig. 5 is a detail perspective view showing a portion of one of the rocking links and means for connecting the same with one of the supporting-legs. Fig. 6 is a detail sectional view through one of the supporting-legs. Fig. 7 is a sectional detail view taken through the cap of the supporting-frame. Fig. 8 is a perspective view showing the chair and frame folded.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The supporting-frame of the improved hammock-chair includes a cap-piece 1 and two pairs of legs 2 2. Secured upon the under side of the cap-piece are pairs of plates 3 3, having downwardly-extending longitudinally-disposed flanges 4 4, between which the pairs of legs are pivoted, respectively, in front and in rear of the cap-piece, so that when the lower ends of the legs are spread apart the upper ends of said legs will abut upon the front and rear sides of the cap-piece. The front and rear legs are connected with each other by means of foldable links or braces 5 5.

The chair-supporting links or hangers 6 6 are provided at their upper ends with hooks 7, having downturned points that are adapted to enter into shallow sockets 8, formed in

the upper side of the cap-piece, and to engage metallic washers or wear-plates 9, seated in said sockets, the hooks 7 being of such dimensions that they will extend around the cap-piece and swing freely upon the latter. In this manner the links will be very securely supported, the hooks being of sufficient size and strength to sustain any load that may be placed thereon and the contact-points being formed by the extremities of the points of the hooks only, so that the latter may rock freely without frictional contact with adjacent parts and without the squeaky noise usually accompanying such contact, which is an objectionable feature in hammock-chairs of ordinary construction.

The lower ends of the supporting-links are pivotally connected, as by means of pins or bolts 10, with the side rails 11 of the chair-frame, which are connected adjacent to and slightly in front of the supporting-links by means of a cross-brace 12. Link braces 13, which are pivoted upon the supporting-links or hangers 6, are provided near their extremities with slots 14, adapted to be placed into engagement with hooks or buttons 15 upon the seat-rails 11, each of the rails 11 being provided with a plurality of such hooks or buttons, so that it may be adjusted at various angles with relation to the supporting-link with which it is connected.

The seat of the chair is formed of a strip 16 of canvas or other suitable textile or flexible material, one end of said strip being connected with the cross-brace 12 and the other end with a roller 17, which is seated in notches 18 at the upper ends of the seat-rails, said notches being provided with pins 19, extending through apertures 20 near the ends of the roller. The latter may thus be conveniently detached and replaced, so as to admit of the winding thereon or unwinding therefrom of the flexible strip 16 for the purpose of regulating the extent to which said strip shall be permitted to sag between the roller and the cross-brace 12 in accordance with the pressure and convenience of the occupant of the chair.

Pivoted upon the outer sides of the seat-rails 11, near the lower and forward extremities of the latter, are bell-crank levers B, upon the short forwardly-extending arms 21 of which are pivoted brackets 22, that are connected with each other by cross-bars 23, constituting a foot-rest, which latter, as will be readily seen, may be folded in the direction

of the chair-frame when not in use, as will be seen in Fig. 8 and in dotted lines in Fig. 1 of the drawings. The brackets 23 are provided with laterally-extending lugs 24, engaging the under edges of the arms 21 of the bell-crank levers when the foot-rest is extended for use. The long arms 25 of the bell-crank levers are connected, by means of the rocking links 26, with the forward ends of short brace-links 27, the rear ends of which are pivoted upon the rear legs of the supporting-frame. Slidably fitted upon said rear legs are clamping-collars 28, which are connected, by means of braces 29, with the pins or pivotal members 30, connecting the rocking links 26 with the link braces 27.

It will be seen that under this construction when the chair is extended in operative position and pressure is exerted upon the foot-rest by the feet of the occupant the bell-crank levers B may be rocked upon their fulcrums, thus causing a swinging or rocking motion to be imparted to the chair-body, which is suspended, by means of the links or hangers 6, from the cap-piece of the supporting-frame. By adjusting the sliding collars upon the rear legs the bell-crank levers may be tilted so as to adjust the foot-rest with relation to the feet of the occupant of the chair, so as to suit a person having long or short limbs. When the device is to be folded, the clamping-collars 28 are loosened, thus permitting them to slide freely upon the legs and permitting the links 27 and 26 and the braces 29 to fold in small compass adjacent to the rear legs of the chair-frame. Similarly when the device is folded the legs 22 of the chair-frame fold together, and the long arms 25 of the bell-crank levers will fold in the direction of the links 26, thus enabling the entire device to be folded in very small compass for convenience in storage or shipment, as will be seen in Fig. 8 of the drawings.

Upon the chair-supporting links or hangers 6, near their upper ends, there is supported an ordinary spring shade-roller, as 31, having a shade 32, the free edge of which is connected with a yoke 33, formed of a light metallic rod or wire, and the ends of the arms of which are pivoted upon the links 6 a short distance above the chair-rails. The yoke 33 may be extended forwardly, as shown in Fig. 1, or rearwardly, as shown in Fig. 2, so as to shade the occupant of the chair from the rays of the sun. This improved shade may be very readily adjusted to suit the occupant of the chair, and when the shade is not desired it may be wound upon the roller, so as to be out of the way.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood. The improved hammock-chair constructed as herein described may be manufactured at a

very moderate expense. It is light, comfortable, easily portable, and may when not in use be folded or stored in small space.

Having thus described the invention, what is claimed is—

1. In a hammock-chair, the combination with a suitable supporting-frame, of supporting-links, a chair-frame including side rails pivoted at the lower ends of the supporting-links and a cross-brace, braces pivoted upon the supporting-links and connected adjustably with the side rails, a collar slidably mounted for vertical movement on the frame, and a pivotal connection between the collar and one end of the chair.

2. In a hammock-chair, a supporting-frame, a pair of suspension-links, seat-rails connected pivotally with said links, a cross-brace connecting the seat-rails, a roller supported adjustably by the seat-rails, a flexible seat connected with said roller and with the cross-brace, hooks extending laterally from the seat-rails, and a brace pivoted to the supporting-links and provided with a terminal socket adapted to receive the hooks for adjustably connecting the supporting-links with the seat-rails and for securing said links and rails at various adjustments.

3. In a hammock-chair, a supporting-frame, a pair of suspension-links, a seat-frame pivotally connected therewith, a collar slidably mounted for vertical movement on the frame, and levers pivotally connected with the collar and seat-frame respectively, and pivoted to each other for imparting movement to the seat.

4. A supporting-frame having front and rear legs and a cap-piece, links suspended from said cap-piece, a chair-frame connected pivotally with the suspension-links, bell-crank levers pivoted upon the sides of the chair-frame, a foot-rest connected with the forwardly-projecting short arms of the bell-crank levers, link braces connected with the rear legs of the supporting-frame, and links connecting said braces with the upwardly-projecting long arms of the bell-crank levers.

5. In a hammock-chair, a supporting-frame having front and rear legs and a cap-piece, links suspended from the cap-piece, a chair-frame connected pivotally and adjustably with the suspension-links, bell-crank levers pivoted upon the sides of the chair-frame, a foot-rest connected with the forwardly-projecting short arms of the bell-crank levers, link braces connected with the rear legs of the supporting-frame, clamping-collars slidable upon said legs, links connecting the long arms of the bell-crank levers with the link braces, and braces connecting the latter with the clamping-collars.

6. In a hammock-chair, a supporting-frame, collars slidably mounted for vertical movement on said frame, suspension-links, a chair-frame connected pivotally with the sus-

pension-links, bell-crank levers pivoted upon the sides of the chair-frame, a foot-rest connected with the bell-crank levers, and links connecting the latter with the sliding collars.

5 7. In a hammock-chair, a supporting-frame, suspension-links, a chair-frame connected pivotally with the suspension-links, bell-crank levers pivoted upon the sides of the chair-frame and having forwardly and
10 upwardly extending arms, foot-rest-supporting brackets pivoted upon the forwardly-extending arms of the bell-crank levers, and

links connecting the upwardly-extending arms of the bell-crank levers with relatively stationary points.

In testimony that we claim the foregoing
as our own we have hereto affixed our signatures in the presence of two witnesses. 15

SAMUEL F. CALBECK
SAMUEL ALDER.

Witnesses:

GEORGE H. DUNN,
HERBERT H. FIENAN.