No. 674,664. Patented May 21, 1901.

J. E. BERGSTEN.

COMBINED FOLDING HAMMOCK AND RECLINING ROCKING CHAIR.

(Application filed Mar. 25, 1901.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

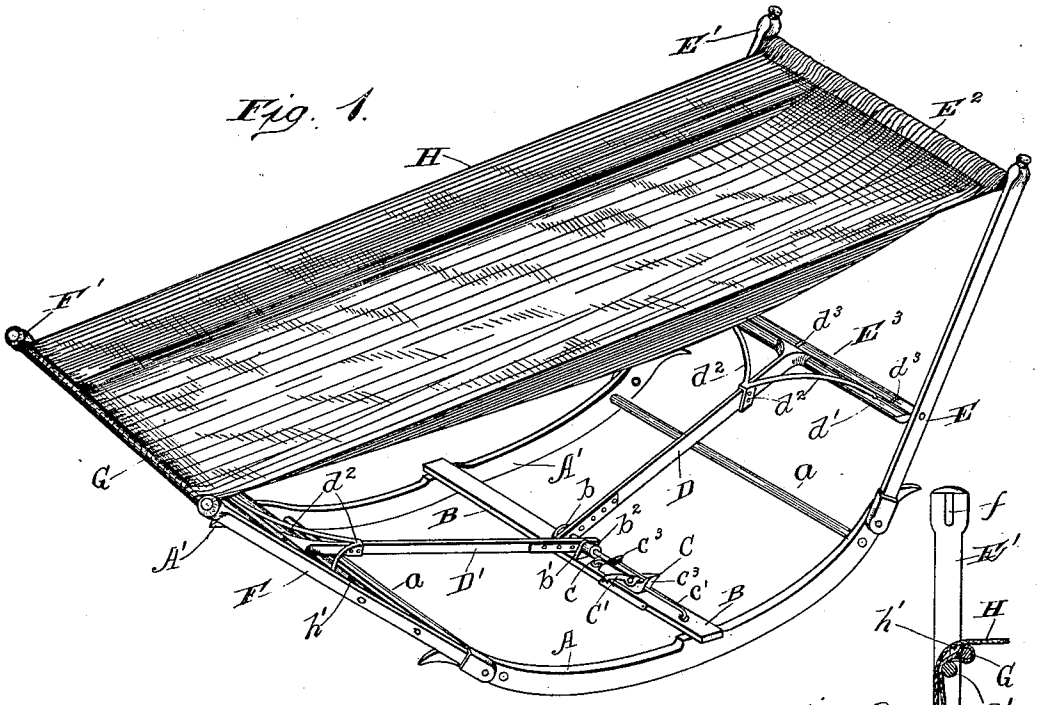


Fig. 9.

Fig. 6.

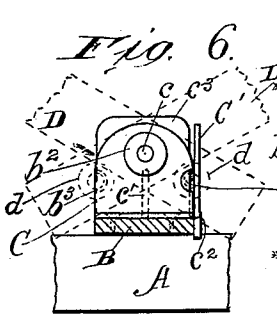


Fig. 5.

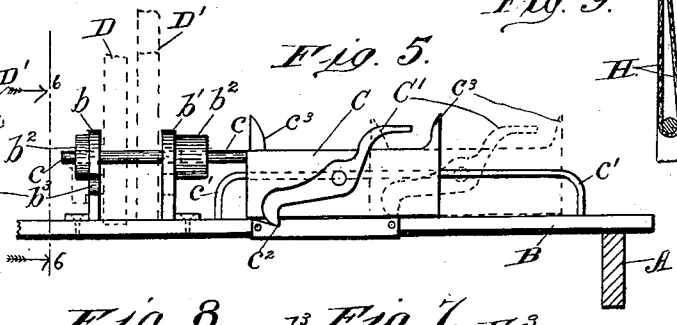


Fig. 8.

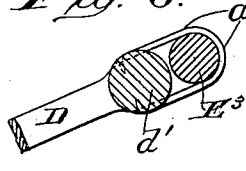
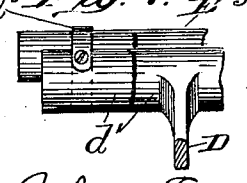


Fig. 7.



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(Application filed Mar. 25, 1901.)

(No Model.) 2 Sheets—Sheet 2.

Fig. 2.

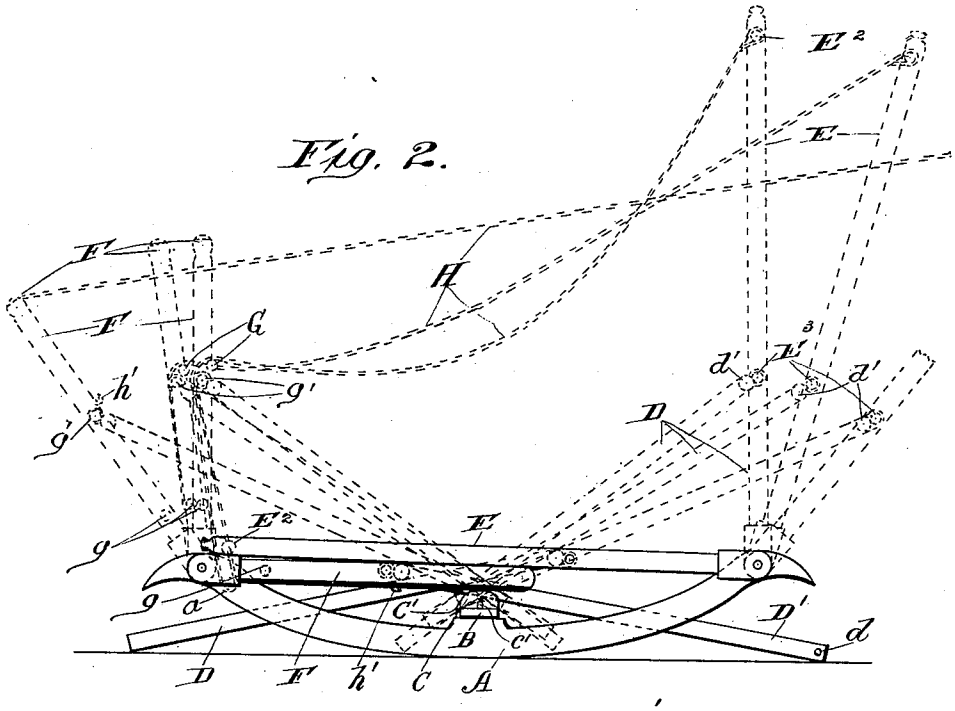


Fig. 3.

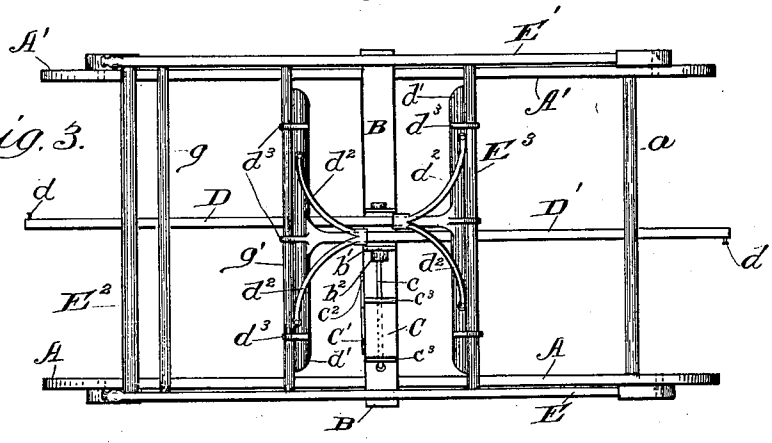
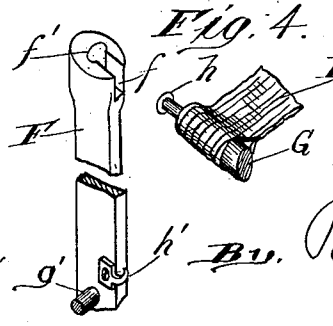


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN E. BERGSTEN, OF CHICAGO, ILLINOIS.

COMBINED FOLDING HAMMOCK AND RECLINING ROCKING-CHAIR.

SPECIFICATION forming part of Letters Patent No. 674,664, dated May 21, 1901.

Application filed March 25, 1901. Serial No. 52,731. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. BERGSTEN, a subject of the King of Sweden and Norway, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Combined Folding Hammock and Reclining Rocking-Chair, of which the following is a specification.

This invention relates to improvements in a combined folding hammock and reclining rocking-chair; and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The principal object of my invention is to furnish a device or apparatus of the above-named character which shall be inexpensive to manufacture, strong and durable, and of such construction that the parts may be folded together into a compact form and may be so arranged with respect to one another as to form a hammock or a rocking-chair with an adjustable or reclining back.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of the device, showing its parts arranged to form a hammock. Fig. 2 is a view in side elevation, showing by continuous lines the parts folded together and by broken lines the different positions the parts will occupy when used as a hammock or chair. Fig. 3 is a plan view with the cloth removed, showing the parts folded together. Fig. 4 is a perspective view of a portion of one of the supporting members or uprights and a part of the hammock-body and one of its rods. Fig. 5 is a view, partly in section and partly in elevation, of the base or lower portion of the device, showing the means for securing the adjusting-rods together. Fig. 6 is a view, partly in section and partly in elevation, taken on line 6 6 of Fig. 5 looking in the direction indicated by the arrows. Fig. 7 is a view in elevation of a portion of one of the cross-rods employed for securing the members or uprights together and showing the means of pivotally connecting the adjusting-rods thereto. Fig. 8 is a cross-sectional view thereof; and Fig. 9 is a view in elevation, partly in section, of a portion of the device, showing the manner of arranging the cloth when it is desired to use it as a chair.

Similar letters refer to like parts throughout the different views of the drawings.

The base or lower portion of the device comprises two pieces A and A′, which are preferably curved or made in the form of rockers, as is clearly shown in Figs. 1 and 2 of the drawings. These pieces are connected together near their ends by means of tie-rods *a* and are provided on their upper surfaces at about their middle with a cross-piece B, which also assists in securing them together. Secured to the upper surface of the piece B at about its middle are two brackets *b* and *b′*, each of which is provided in its upper portion with a horizontal opening to receive a rod *c*, which is secured to and carried by a block C, which is movably mounted on the upper surface of the cross-piece B and is preferably retained in position thereon by means of a rod *c′*, which is secured at its ends to said cross-piece and passes through a suitable opening in the block, so that the same may be moved back and forth thereon. Pivotally secured to one side of the block C is a dog C′, the lower end of which engages a catch c^2, secured to the cross-piece B, and thus locks the block in position. The upper portion of the dog or pawl C′ extends somewhat above the upper surface of the block C, as is clearly shown in Fig. 5, so that it may be pressed downward by the foot or otherwise when it is desired to disengage the dog from the catch.

The block C is provided at each of its ends with an upward extension c^3, between which the shoe will rest and by means of which the block may be moved in either direction.

By reference to Figs. 5 and 6 of the drawings it will be seen that the brackets *b* and *b′* are located a slight distance apart and that each is provided with a boss b^2 around its opening for the reception of the rod *c*, which is carried by the above-named block. The brackets are also provided with recesses b^3 in their opposite edges to receive the pins or projections *d* on the free ends of the adjusting-

rods D and D′, as will be presently explained. Pivotally secured at their lower ends to one of the ends of the rockers or pieces A and A′ are uprights E and E′, which are connected together at their upper ends by means of a rod or bar E^2 and near their lower portions by means of a rod E^3, to which the adjusting rod or bar D is pivotally connected. This bar is provided in its lower portion with a series of openings to receive the rod *c* on the locking-block C and is secured at its upper end to a transverse rod or bar *d′* by means of braces d^2 or otherwise. The transverse piece *d′* is pivotally connected to the rod E^3 by means of straps d^3, which surround the rod E^3 and are secured at their ends to the rod or piece *d′* by means of screws or otherwise. Pivotally secured at their lower ends to the opposite ends of the rockers or pieces A and A′, to which the uprights E and E′ are secured, are members or uprights F and F′, which are connected together by means of a tie-rod *g*, located in their lower portions, and by means of a rod or piece *g′*, to which the adjusting-rod D′ is pivotally connected in the same manner as the rod D. The upper ends of the members or uprights F and F′ are provided with vertical slots *f*, having enlargements *f′* to receive and retain the ends of the rod G, to which one end of the cloth or body H is secured. The other end of the cloth, which forms the body of the chair or hammock, is connected to the rod E^2, which unites the uprights or members E and E′, forming the back of the chair or the head of the hammock. As is shown in Fig. 4 of the drawings, each end of the rod G is provided with a head or button *h*, which fits in the enlargements *f′* of the slots *f* in the uprights or members F and F′ at the foot of the hammock.

As is shown in Fig. 1 of the drawings, the adjusting rods or bars D and D′ rest between the brackets *b* and *b′* and are secured together by passing the rod *c* through the openings in the lower portion of the adjusting rods or bars, so as to give the desired inclination to the members or uprights at the ends of the rockers or base-pieces.

When it is desired to use the device as a hammock, the cloth or body H is connected at one of its ends to the rod E^2, and the ends of the rod G, to which the other end of the cloth or body is secured, are placed in the openings of the uprights F and F′, as is shown in Fig. 1 of the drawings.

When it is desired to convert the device into a chair, the members F and F′ are placed in a vertical position and the members E and E′ given the proper inclination by means of the adjusting-rods D and D′, when the cloth or body H may be passed over the rod or bar *g′* and under the rod *g* and then again over the rod *g′*, where it will be retained by means of the hooks *h′* on the members F and F′, as is clearly shown in Fig. 9 of the drawings. By removing the rod *c* from the openings in the rods or bars D and D′ it is apparent that the head members or uprights E and E′ and the foot members or uprights F and F′ may be folded one on the other, as is shown in Figs. 2 and 3 of the drawings, thus forming the device into a compact form for handling or storing away.

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

1. The combination with two base-pieces located parallel with one another, of a cross-piece secured to their upper surfaces about their middle and provided with a catch, brackets secured to the cross-piece and having openings in their upper portions, a pair of uprights or members pivotally connected at their lower ends to one of the ends of the base-pieces, and another pair of uprights or members pivotally connected at their lower ends to the other ends of the base-pieces, the adjusting rods or bars pivotally connected at one of their ends to said pairs of uprights and having openings in their lower portions, a block movably mounted on the said cross-piece and having a rod to pass through the openings in the brackets and adjusting rods or bars and provided with a pawl to engage the catch on the cross-piece, and a cloth or body having means to connect its ends to the pairs of uprights, or members, substantially as described.

2. The combination with two base-pieces secured together in parallelism, of a cross-piece located on their upper surfaces about their middle, a pair of uprights or members pivotally connected at their lower ends to one of the ends of the base-pieces, and another pair of uprights or members pivotally connected at their lower ends to the other ends of the base-pieces, the adjusting rods or bars pivotally connected at one of their ends to said pairs of uprights and having their other ends extending across the said cross-piece, means on the said cross-piece to secure the adjusting-bars together, and a cloth or body having means to connect its ends to the pairs of uprights or members, substantially as described.

3. The combination with two base-pieces secured together in parallelism, of a cross-piece secured to their upper surfaces about their middle and provided with a catch, brackets secured to the cross-piece and having openings in their upper portions, a pair of uprights or members pivotally connected at their lower ends to one of the ends of the base-pieces, and another pair of uprights or members pivotally connected at their lower ends to the other ends of the base-pieces, and having cross-rods to secure them together and provided in their upper ends with openings and below their upper ends with hooks, the adjusting rods or bars pivotally connected at one of their ends to said pairs of uprights and having openings in their lower portions, a block movably mounted on the said cross-piece and

having a rod to pass through the openings in the brackets and adjusting rods or bars and provided with a pawl to engage the catch on the cross-piece, and a cloth or body connected at one of its ends to the first-named pair of uprights and having a rod at its other end to engage the openings and hooks in and on the last-named pair of uprights, substantially as described.

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