(No Model.)

E. S. AMROCK.

CONVERTIBLE HAMMOCK AND SWINGING CHAIR.

No. 306,046. Patented Oct. 7, 1884.

FIG. 6.

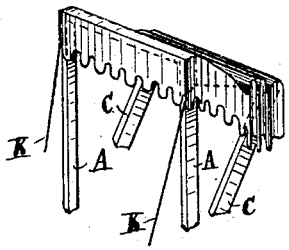


FIG. 1.

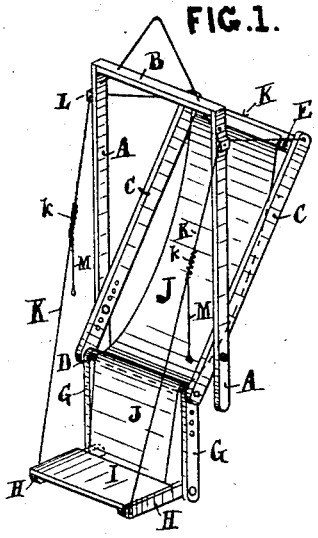


FIG. 4.

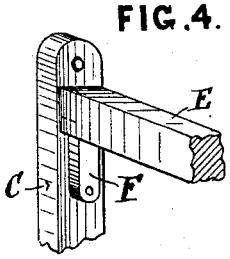


FIG. 5.

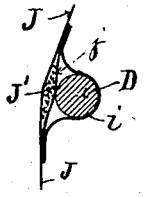


FIG. 2.

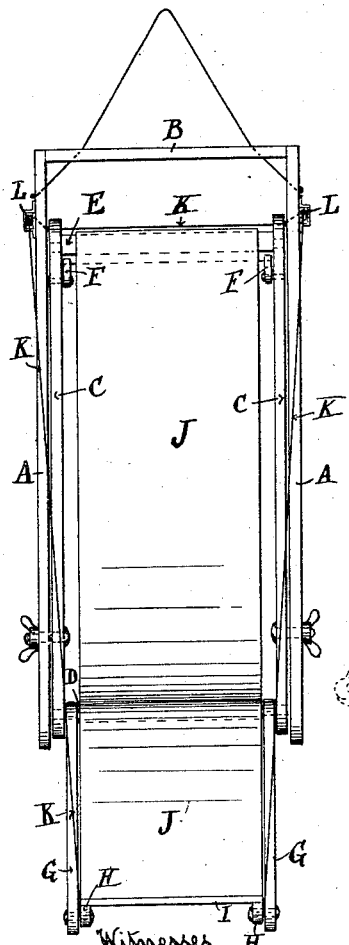
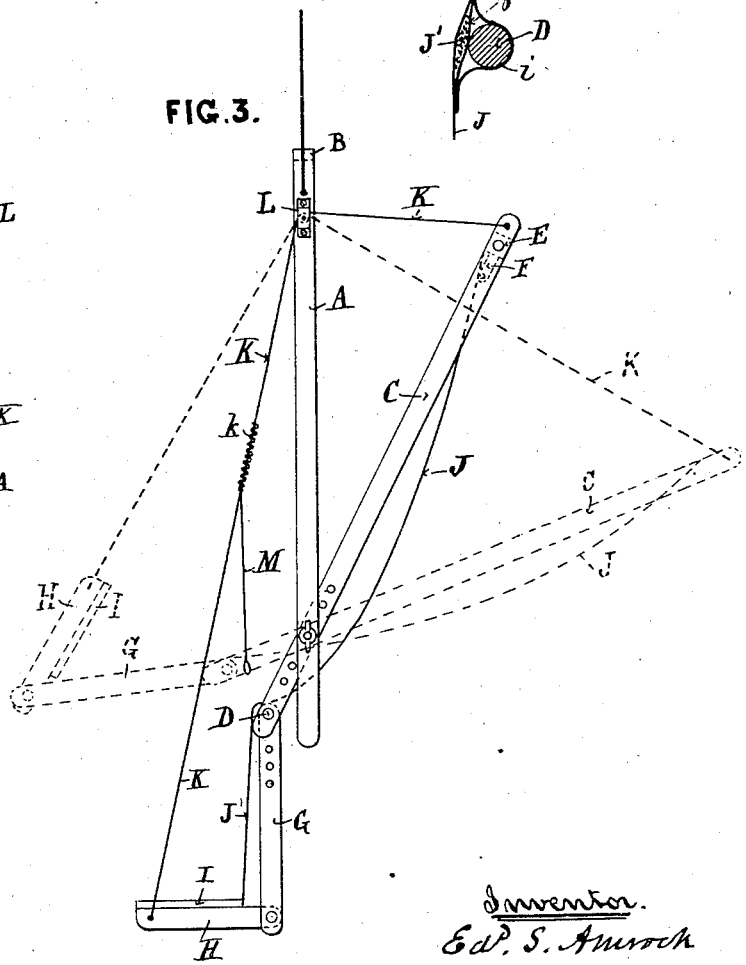


FIG. 3.



Witnesses
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Atty.

UNITED STATES PATENT OFFICE.

EDWARD S. AMROCK, OF WALTHAM, MASSACHUSETTS.

CONVERTIBLE HAMMOCK AND SWINGING CHAIR.

SPECIFICATION forming part of Letters Patent No. 306,046, dated October 7, 1884.

Application filed August 27, 1883. (No model.)

To all whom it may concern:

Be it known that I, EDWARD S. AMROCK, a citizen of the United States, residing at Waltham, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Convertible Hammock and Swinging Chair, of which the following is a specification.

The object of my invention is to provide a combined hammock and swinging chair that can be readily changed from a hammock to a swinging chair, and vice versa, by the occupant, and without leaving the same.

The invention consists of an outer and inner frame, the inner frame being pivoted to the outer frame in such a manner that the center of gravity shall be adjustable to the weight of the occupant. Connected to the lower part of the inner frame is a foot-rest, to the outer ends of which are attached cords, which pass from the top of the inner frame through or over pulleys on the side of the outer frame, so that when the device is suspended from a cord or cords attached to the outer frame the occupant can regulate the inclination of the inner frame by the pressure of his feet upon the foot-board.

Referring to the accompanying drawings, Figure 1 is a perspective view of my invention arranged as a swinging chair. Fig. 2 is a front view of the same, Fig. 3 is a side view showing in dotted lines the position of the inner frame and foot-piece when used as a hammock. Figs. 4, 5, and 6 are details.

A A are the side pieces of the outer frame. B is the upper cross-piece. C C are the side pieces of the inner frame, to the lower portion of which is attached the cross-piece D, forming the seat-rail.

To the upper end of the side pieces C C is attached, so as to admit of its being rotated freely, the upper cross-piece E, which may be square, as shown, or polygonal, so that it can be held in any desired position by a stop, F, pivoted to the side pieces C.

To the cross-piece D are hung two side pieces, G G, having bars H H pivoted thereto, to which latter is secured the foot-rest I.

J is a piece of canvas, attached at its lower end to the foot-rest I, and, passing over the seat-rail, is secured at its upper end to the cross-piece E. Should the canvas hang too loosely, the cross-piece E can be turned so as to wind up the canvas to take up the slack, when the stop F is pushed into position and prevents the cross-piece E from turning. (See Fig. 4.) The inner frame is pivoted to the outer frame at a sufficient distance from the lower end to adjust it to the center of gravity of the occupant. The top of the inner frame is supported by a cord, K, which is attached at one end to one of the bars H, and passes up over a pulley, L, on the side piece A of the outer frame, and thence to and through the top of one of the side pieces C of the inner frame, where it is knotted or otherwise fastened, and thence through the other side piece C and fastened, and is then passed over another pulley L on the other side piece A, and thence down to the other bar H. The upper ends of the side pieces C of the inner frame are held apart by means of the cross-bar E, and are prevented from spreading by the cord K being knotted or fastened on the outer side of each of the said side pieces. A supplementary cord, M, is attached—one on each side—to the cord K, so that should the inner frame hang too far back the occupant can raise it by pulling the cords M and pressing on the foot-rest I. Spiral springs *k k* are placed on the cords K K above the knot that connects the cord M to K, so that when the inner frame is thrown back the weight of the body of the occupant is partly taken up by the spring, which is arrested at pulleys L, and it also serves to assist the occupant in rising.

In each side piece of the frame A A is a series of holes, as shown, through which pass bolts that secure the said frame to the frame C C, by which the latter can be adjusted higher or lower, and the hangers G G also have holes by which the seat-rail can also be adjusted as to height. By means of this construction and arrangement the two frames and the seat can be relatively adjusted according to the requirements or weight of the occupant. A pad, J′, is made to fit on the seat-rail D, (shown enlarged in Fig. 5;) and it consists of two pieces of canvas, *i j*, stitched to the canvas J. The space between the canvas J and the short piece *j* is filled with hair or other suitable material, and the seat-rail D is passed through

the space between the pieces *j* and *i*. By this means a soft pad is always kept in position on the rail D. In some cases the piece *i* or piece *j* may be dispensed with, and a packing of soft material be placed directly between the canvas J and rail D; or the packing may be placed entirely around the rail D.

In Fig. 6 is shown an awning attached to the upper part of the frames A C, to be used in the swinging chair.

The device can be folded together in a small compass when not required for use, or for transportation.

What I claim as my invention is—

1. In a convertible hammock and swinging chair, the combination of the outer frame, A A B, inner frame, C, C, D, and E, provided with a canvas, J, the bars G G, cords K K, foot-rest H I, and pulleys L L, substantially as shown and described.

2. In a convertible hammock and swinging chair, the combination of the frames A and C, and the bars G G, made relatively adjustable, the bars H, and the connecting-cords K, as and for the purpose set forth.

3. In a convertible hammock and swinging chair, the combination of the seat-rail D, supported in the frame C, the canvas J, pad J′, and the canvas pieces *i j*, as shown, and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD S. AMROCK.

Witnesses:
J. H. ADAMS,
E. PLANTA.