

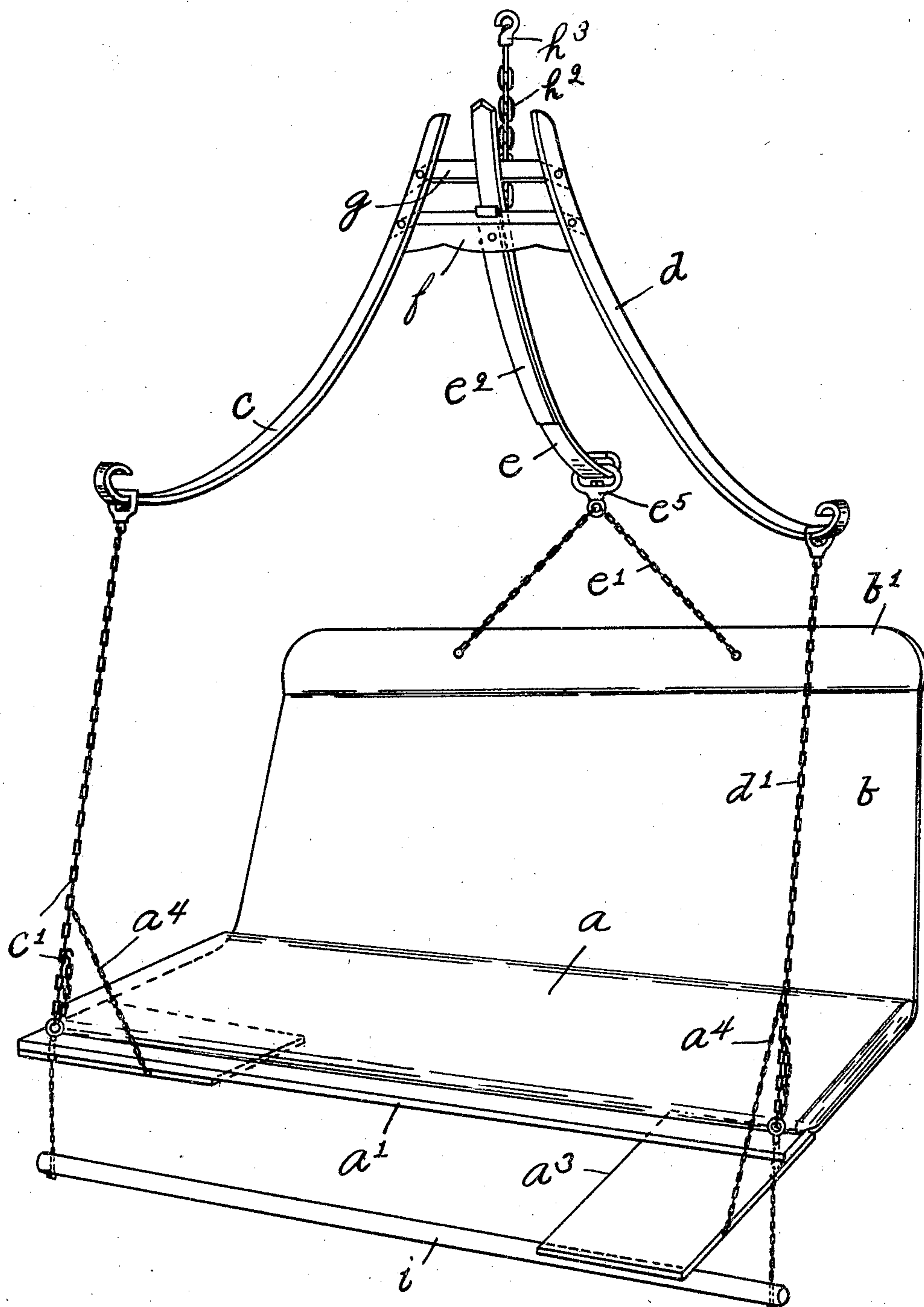
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PATENTED JULY 11, 1905.

W. S. BOWIE.  
SWINGING SEAT OR HAMMOCK.

APPLICATION FILED NOV. 30, 1904.

3 SHEETS—SHEET 1.



Witnesses:  
H. B. Davis.  
E. A. Jordan.

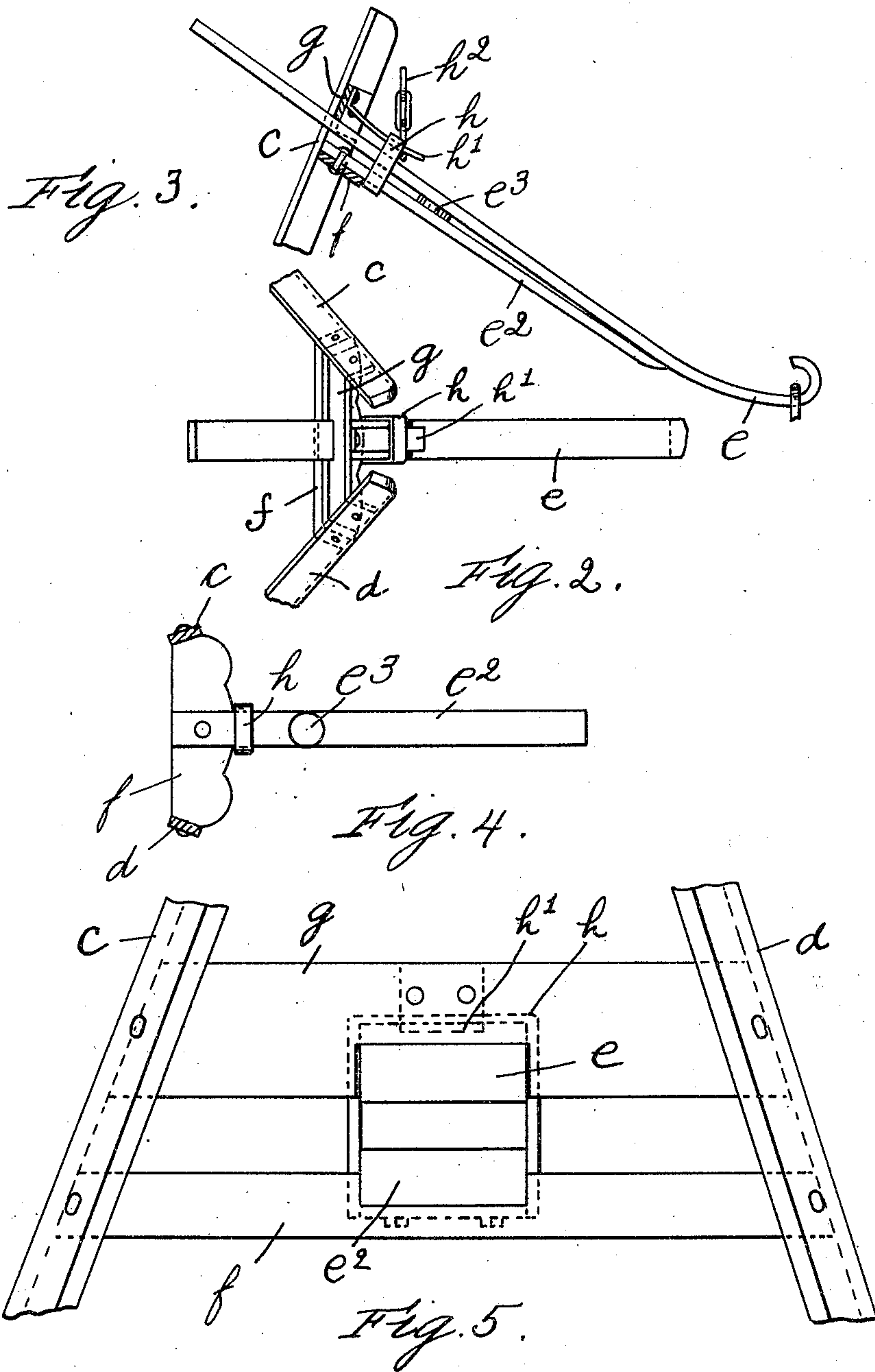
Fig. 1.

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3 SHEETS—SHEET 2.



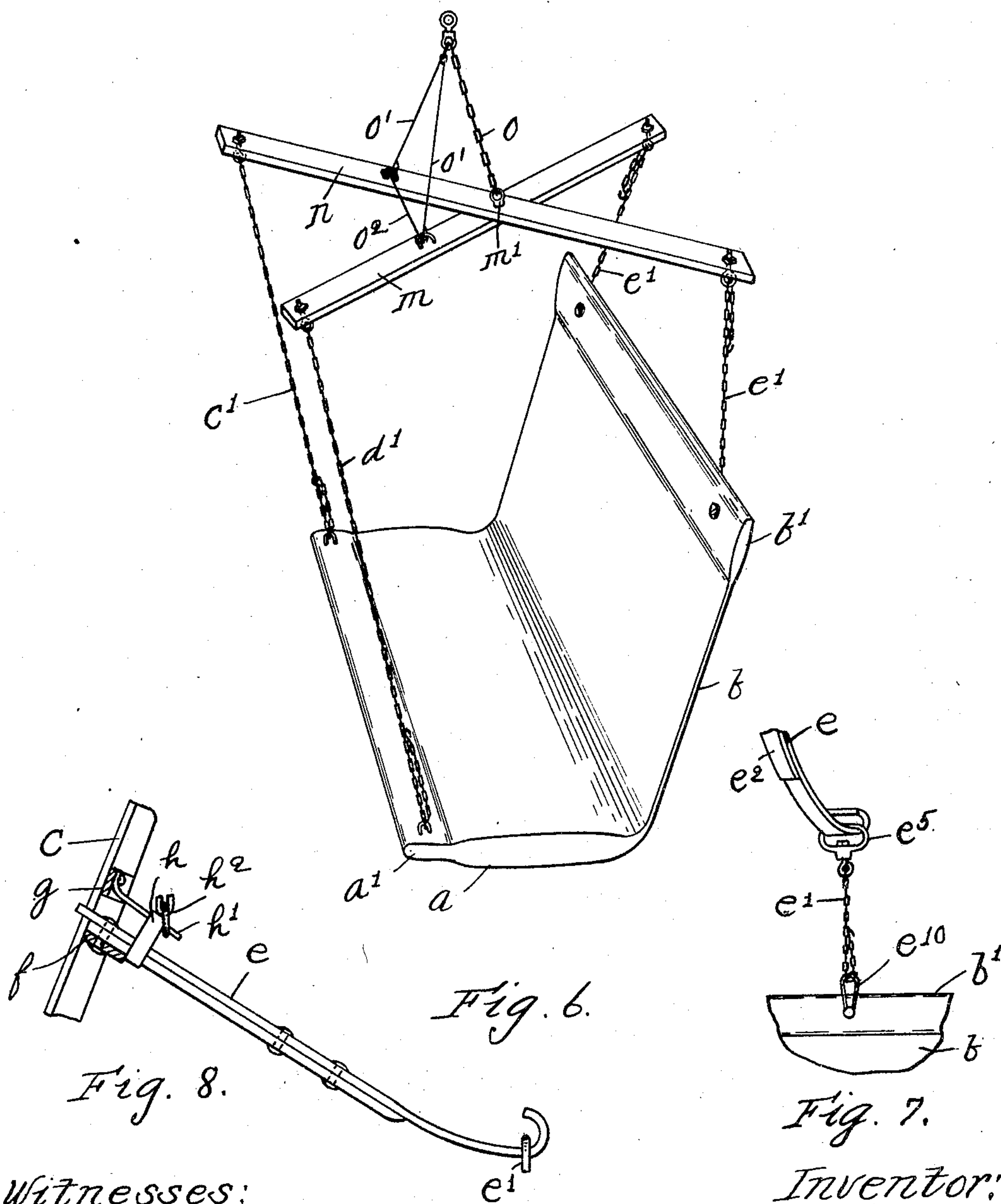
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3 SHEETS—SHEET 3.



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# UNITED STATES PATENT OFFICE.

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## SWINGING SEAT OR HAMMOCK.

SPECIFICATION forming part of Letters Patent No. 794,484, dated July 11, 1905.

Application filed November 30, 1904. Serial No. 234,848.

*To all whom it may concern:*

Be it known that I, WILLIAM S. BOWIE, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Swinging Seats or Hammocks, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention has for its object to provide a swinging seat or hammock with a support which is constructed and arranged to support the seat portion in a horizontal plane and the back portion at the rear side thereof in an upright position, but at different inclinations; also, to so construct said support as to yield; also, to provide the horizontal seat portion with a foot-rest, which is movable into and out of operative position; also, to provide the horizontal seat portion with a swinging foot-rest.

Figure 1 shows a perspective view of a swinging seat or hammock embodying this invention. Fig. 2 is a plan view of the yielding support, the arms being broken off to save space on the drawing. Figs. 3, 4, and 5 are details of the yielding support to be referred to. Fig. 6 is a modification to be referred to. Figs. 7 and 8 are details of modifications to be referred to.

*a* represents the horizontal seat portion, and *b* the upright back portion, the two portions being composed of a single piece of canvas or other suitable material. The seat portion *a* has at its front edge a stiff bar *a'*, and the upright back portion *b* has at its upper edge a stiff bar *b'*. These bars may be secured in place by being inclosed by the material composing the seat and back portions, if desired, or they may be otherwise secured.

It is designed and intended that the seat portion *a* shall occupy substantially a horizontal plane and the upright back portion *b* shall occupy different inclined positions relative thereto and that the seat and back portions shall be supported in a yielding manner while held in the desired relative positions and also permitted to swing freely and revolve on a

common center. A yielding support is provided comprising, essentially, three arms *c*, *d*, and *e*, all made of elastic material—such, for instance, as wood or metal. The several arms *c*, *d*, and *e* extend downwardly and outwardly from the support to which they are attached. The arms *c* and *d* serve as the front arms of the support and the arm *e* as the rear arm thereof. The front arms *c* and *d* are curved longitudinally, and their lower extremities are turned up. The lower ends of the arms *c* and *d* are connected by chains *c'* and *d'* with the front edge of the seat portion *a*, said chains having stirrups at their upper ends which are slipped over the ends of the arms and held from sliding off by the upturned ends of said arms, and the lower ends of said chains *c'* *d'* pass through the eyes of screws which are screwed into the front edge of the seat portion and are hooked back into any one of the links of the chains. The front edge of the seat portion may be adjusted to different elevations by means of these chains and the seat portion accordingly adjusted.

The lower end of the arm *e* (see Fig. 1) is connected by a chain or chains *e'* with the upper edge of the upright back portion, said chains having a stirrup *e''*, which is slipped over the end of the arm and held from sliding off by the upturned end of the arm, or, as shown in Fig. 7, the chain *e'* is attached at its upper end to the stirrup *e''*, while its lower end passes through an eye *e'''*, secured to the upper edge of the back portion, and is hooked back into any one of the links of the chain.

The three elastic supporting-arms *c*, *d*, and *e* are attached at their upper ends to blocks composed of any suitable material, from which they diverge in different directions. As shown in Figs. 1 to 5, two blocks *f* and *g* are employed to support the arms, they being located one a short distance above the other. The lowermost block *f* is composed of wood, although it may be made of metal, and is formed to present two faces at the sides for the attachment of the arms *c* and *d* and also has means for supporting the arm *e*. The uppermost block *g* is of metal and likewise



is formed to present two faces at the side for the attachment of the arms  $c$  and  $d$  and also has means for assisting in supporting the arm  $e$ . The arm  $e$  is adjustably connected to the supports, so that it may be adjusted longitudinally in order that the inclination of the upright back portion  $b$  may be varied.

While it is obvious that different means may be employed for thus adjusting the arm  $e$  longitudinally, the means herein shown is simple and effective and consists of an elastic bar  $e^2$ , located beneath the bar  $e$ , the upper end of which is laid upon and attached to the lowermost block  $f$  and the lower end of which extends down to a point near the end of the arm  $e$ , and said arm  $e$  bears upon it. A block of rubber  $e^3$  may be interposed between the bars  $e$  and  $e^2$ , if desired. The bar  $e$ , resting upon the bar  $e^2$  and rubber block  $e^3$ , extends over the lowermost block  $f$  and bears against the lower edge of the uppermost block  $g$ , thereby occupying a position between the two blocks. The bar  $e$  may be adjusted by lifting its lower end slightly and then moving it longitudinally, and it will become locked in whatever position it may be left when disengaged by impinging upon the uppermost block and bearing upon the elastic bar  $e^2$ . Of course the weight upon the end of the arm  $e$  serves as the means of positively holding said arm in engagement with the block  $g$  and bar  $e^2$ .

A loop or strap  $h$  is attached to the bar  $e^2$  near its point of attachment with the block  $f$ , and a tongue  $h'$  is attached to the uppermost block  $g$ , which extends outward through the loop  $h$ , and the lower end of a chain  $h^2$  is removably connected to or slipped over the end of said tongue  $h'$ , the upper end of which chain has a hook  $h^3$  for attaching it to any desired support. The chain  $h^2$  serves as the main supporting-chain for the apparatus, and the hook  $h^3$  is preferably swiveled to the chain, so that the apparatus may freely revolve on the hook.

The seat portion  $a$  is or may be provided with one or two foot-rests, which are herein shown as flat plates  $a^3$ , pivotally connected to the front edge of the seat portion—as, for instance, the screw-eye, to which the supporting-chain is connected, may serve as a pivot. A chain  $a^4$  will be connected to the plate and to the supporting-chain. When the foot-rest is not in use, it may be swung back beneath the horizontal seat portion  $a$ , as represented in Fig. 1, wherein it will be seen that two foot-rests are shown. A bar  $i$  is or may be loosely connected by chains or otherwise to the front edge of the seat portion, which will also serve as a foot-rest.

Referring to Fig. 6, the yielding support comprises two elastic bars  $m$   $n$ , which cross each other and which are connected together

at  $m'$ , and the forward extremities of said bars are connected by chains  $c'$   $d'$  with the seat portion, and the rear extremities of said bars are connected by chains  $e'$   $e'$  with the upright back portion, and the yielding support thus provided has attaching means by which the apparatus is held suspended, herein shown as consisting of a chain  $o$  and rods or links  $o'$   $o'$ , which are connected to a swiveled hook or eye. A rod  $o^2$  is also connected between the bars  $m$  and  $n$  to hold them separated a predetermined distance.

Referring to Fig. 8, the elastic bar  $e$  is rigidly attached at its upper end to the block  $f$  by the bolts employed for attaching the bar  $e^2$ , and when employing such construction adjustment of the back is obtained by varying the length of the chain  $e'$ . (Shown in Fig. 7.)

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

1. A swinging seat or hammock comprising a horizontal seat portion and an upright back portion at the rear edge thereof, a support having a plurality of curved elastic arms extended downwardly and outwardly therefrom, chains connecting the extremities of said arms with the seat and back portions, and attaching means for said support, substantially as described.

2. A swinging seat or hammock comprising a horizontal seat portion and an upright back portion, a plurality of elastic arms having upturned ends, chains connecting the extremities of said arms with the seat and back portions, means for supporting said arms and attaching means, substantially as described.

3. A swinging seat or hammock comprising a horizontal seat portion and an upright back portion, a plurality of elastic arms extended downwardly and outwardly from a support, one of which is adjustable longitudinally, chains connecting the extremities of the non-adjustable arms with the seat portion and chains connecting the extremity of the adjustable arm with the back portion, and attaching means, substantially as described.

4. A swinging seat or hammock comprising a horizontal seat portion and an upright back portion, a plurality of curved elastic arms having upturned ends, chains connecting the extremities of said arms with the seat and back portions, means for supporting said arms, and attaching means, substantially as described.

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

WILLIAM S. BOWIE.

Witnesses:

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EDWARD W. FORSTER.