(Model.)

F. CHICHESTER.

Tilting Chair.

No. 240,888. Patented May 3, 1881.

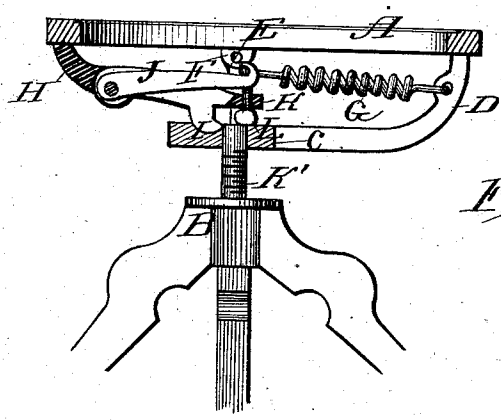


Fig 1.

Fig. 2.

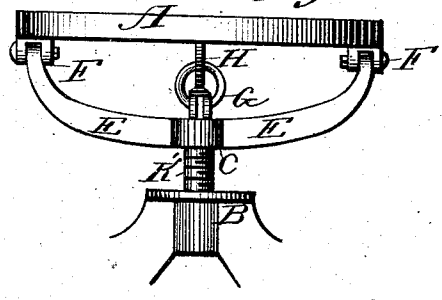
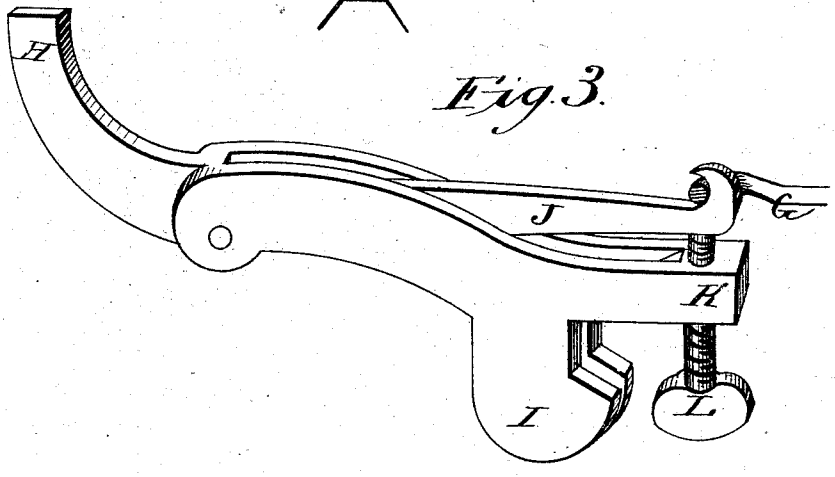


Fig. 3.



WITNESSES

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FRANKLIN CHICHESTER, OF MILWAUKEE, WISCONSIN.

TILTING CHAIR.

SPECIFICATION forming part of Letters Patent No. 240,888, dated May 3, 1881.

Application filed May 15, 1880. (Model.)

To all whom it may concern:

Be it known that I, FRANKLIN CHICHESTER, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Tilting Chairs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in tilting or reclining chairs the backward motion or reclining tendency of which is resisted by a tension-spring.

The object of my improvement is to adapt the same chair to either a light or heavy person, or, in other words, to so adjust the lever-purchase upon the spring that a spring of a given tension will support a greater or less weight.

My invention consists in mechanism whereby the point of attachment of the lever and spring is adjusted farther from or nearer to the fulcrum. Heretofore the same object has been attempted by changing the tension of the spring, the effect of which is injurious to it. By my improvement the tension of the spring remains unchanged without regard to the weight of the person occupying the chair.

My invention is further explained by reference to the accompanying drawings, in which—

Figure 1 represents a side view. Fig. 2 represents a rear view. Fig. 3 represents a perspective of the tilting-lever and hook detached.

A is the seat. B is the stool. C is the spider, which is provided with rigidly-fixed arm D, for supporting the front edge of the seat and the front end of the tension-spring, arms E E, for supporting the seat, and screw K′, all of which may be cast in a single piece.

H is a lever, whose front end rests in a socket, I, which serves as its fulcrum. When the chair is inclined backward it presses the rear end of lever H downward.

J is a hook, the rear end of which is pivoted to the lever H, and its front end is attached to the rear end of the tension-spring G. An arm, K, projects from the upper side of the lever H past and in front of the fulcrum I, and is provided with a hand-screw, L, for adjusting the hook J, whereby the lever-purchase of the spring is increased or diminished. For a heavy person the hook is raised farther from the fulcrum, thereby decreasing the lever-purchase upon the spring, and thus enabling the spring to support a greater weight. For a light person the hand-screw L is turned downward and the hook is brought nearer to the fulcrum, thereby increasing the lever-purchase upon the spring, whereby the lighter person is enabled to oscillate the chair with the same ease as a heavy person when the screw is inversely adjusted.

Having thus described my invention, I do not claim a tilting chair, broadly, as I am aware that it is not new. Neither do I confine my adjusting device to tilting chairs of the peculiar construction shown, as it is equally adapted to be used with tilting chairs of other forms of construction.

What I claim as new, and desire to secure by Letters Patent, is—

1. In tilting chairs, the device herein described for increasing and diminishing the lever-purchase upon the tension-spring, consisting in the combination of adjusting-screw L, tilting-lever H, hook J, and spring G, the screw L being adapted to adjust the point of attachment of the lever to the spring nearer to or farther from the fulcrum, substantially as set forth.

2. In a tilting chair, the combination of the base, the spider, the chair-body, a spring, a lever attached to said spring on one side of its fulcrum, and adapted to be operated upon by the chair-body in the act of tilting at the other side of said fulcrum, and means, substantially as described, for adjusting the point of attachment of the lever and spring farther from or nearer to the fulcrum, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANKLIN CHICHESTER.

Witnesses:
JAS. B. ERWIN,
W. J. SINNOTT.