(Model.)

E. STOUT.

Oscillating Chair.

No. 243,651. Patented June 28, 1881.

Fig. 1.

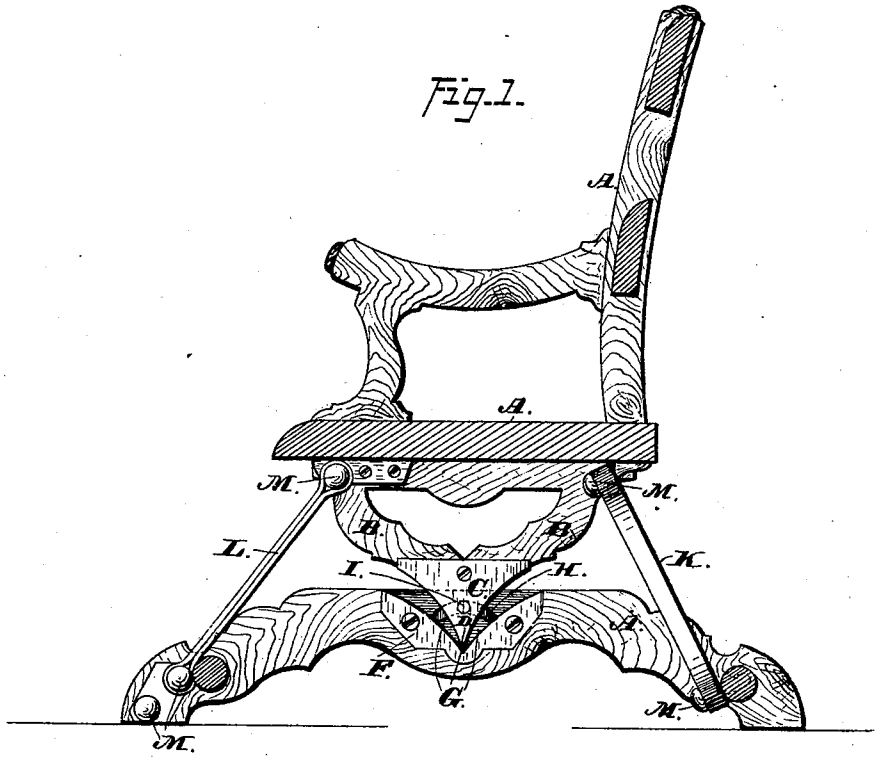


Fig. 2.

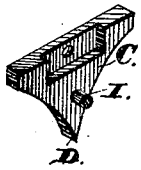
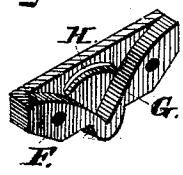


Fig. 3.



WITNESSES:

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Att'y.

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UNITED STATES PATENT OFFICE.

ELISHA STOUT, OF LAMBERTVILLE, NEW JERSEY.

OSCILLATING CHAIR.

SPECIFICATION forming part of Letters Patent No. 243,651, dated June 28, 1881.

Application filed May 12, 1880. (Model.)

To all whom it may concern:

Be it known that I, ELISHA STOUT, a citizen of the United States, residing at Lambertville, in the county of Hunterdon and State of New Jersey, have invented new and useful Improvements in Oscillating Chairs and Seats, of which the following is a specification.

This invention relates to certain improvements in that class of chairs which are constructed to oscillate upon a suitable supporting-base; and it has for its object to produce a strong and durable chair, and one that will readily oscillate or rock with as little friction as possible.

In the accompanying drawings, Figure 1 is a vertical central section, from front to rear, of a chair constructed according to my invention. Fig. 2 is a detached perspective view of one of the rocker-plates. Fig. 3 is a similar view of one of the rocker-supporting plates.

The letter A indicates the body of the chair, which may be constructed of any suitable material, and of any approved pattern. To the under part of the seat of said chair, on opposite sides, are attached the rocker-frames B, which are provided with metallic rocker-plates C, formed with knife-edges D at their lower ends. The said plates are represented, in the present instance, as let into the inner edges of the rocker-frame, and secured by means of screws; but other means may be employed for the purpose without departing from my invention.

The letter E indicates the base or supporting-frame, which is provided at opposite sides with supporting-plates F, which are let into recesses in said sides and secured by screws, although other means of attachment may be employed. The said plates are provided with angular recesses G, which form bearings for the knife-edges of the rocker-plates secured to the rocker-frames of the chairs. The edge walls of these recesses are curved similarly to the curved edges of the rocker-plates, and form seats for the same, which serve as firm stops to limit the movement of the oscillating seat-frame. The supporting-plates are also provided with segmental slots H, for the reception of the pins I, secured to the rocker-plates, the said pins being adapted to work back and forth in the slots as the chair is oscillated, and at the same time hold the knife-edges of the rocker-plates to their seats.

The letter K indicates a spring secured to the rear of the chair-seat at one end, and to the rear round of the supporting-frame at the other. There are two similar springs, as at L, secured to the front of the chair-seat and to the front round of the supporting-frame. These springs, in the present instance, are constructed of vulcanized rubber; but it is evident that spiral metallic springs could be substituted for the same, if found convenient, without departing from my invention. The springs are secured to the respective parts by means of headed studs M M, attached to said parts in any convenient manner, and one or more of said studs may be employed on the supporting-frame, in order that the tension of the springs may be varied, which is accomplished by shifting the ends of the said springs from one of such studs to another.

It will be evident that as the body of the chair is supported upon knife-edges the friction between the parts as the chair is rocked or oscillated will be reduced to a minimum, by means of which, in connection with the springs, a comfortable rocking motion may be imparted to said chair with the least possible exertion.

Another advantage possessed by my invention is, that the rocking and supporting plates, being detachable, may be readily removed and replaced at small expense, in case of wear, without injury to the other parts of the chair.

I am aware of Letters Patent No. 96,211 and No. 20,863, in which is shown a chair-seat having depending pieces pivoted on the base-frame, and provided with coiled springs to permit a rocking motion, and I hereby disclaim the construction shown and described in said patents.

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

In an oscillating chair, the combination, with the seat, the rocker-frame, the horizontal base-frame, and the springs K L, connecting the rocker-frame with the base-frame, of the V-shaped plates C, secured to the rocker-frame,

and formed with curved edges *c*, knife-edges D, and pins I, and the castings F, secured to the horizontal frame, and formed each with an angular recess, G, having its edges G′ curved to conform to the curvature of the edges *c* of the plate C, and a slot, H, extending from one curved edge, G′, to the other, these said curved edges forming stops which limit the extent of the oscillation of the chair, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

ELISHA STOUT. [L. S.]

Witnesses:
THOMAS CROWLEY,
ELISHA READING.