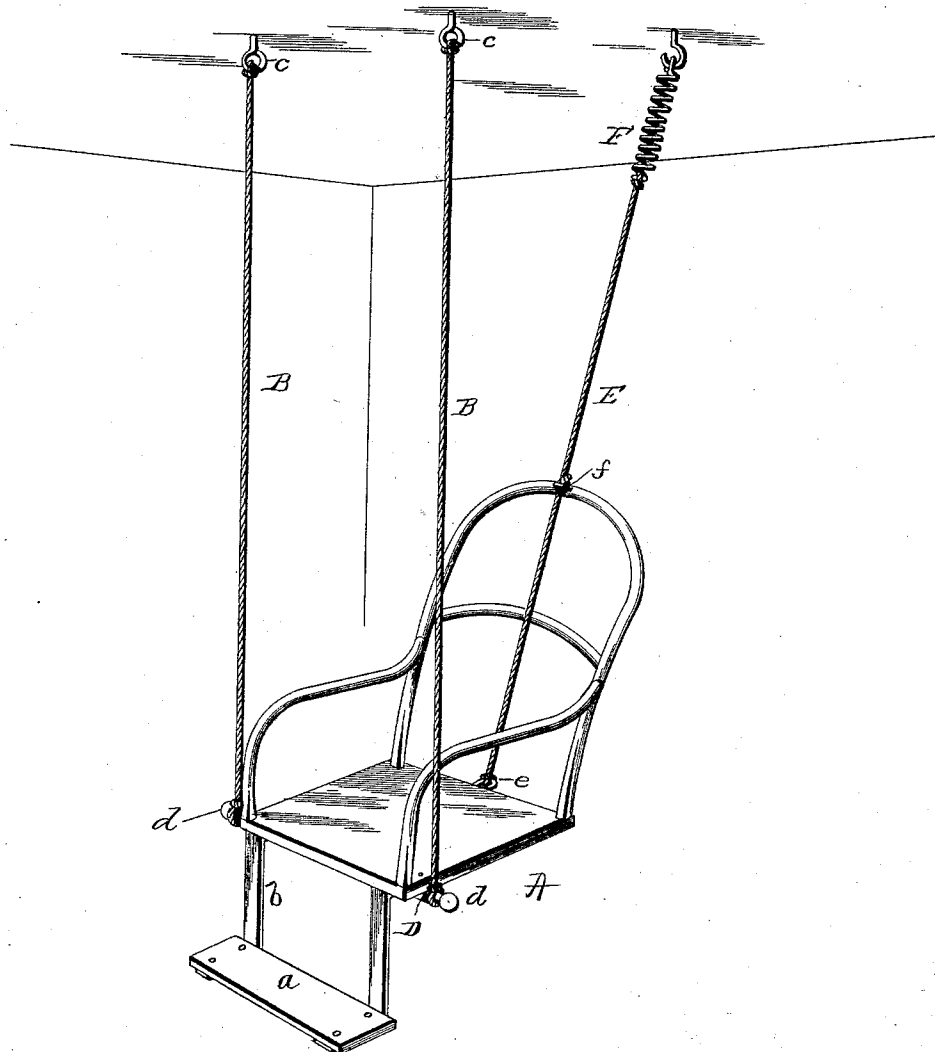


(No Model.)

J. M. ELLER.
SWINGING CHAIR.

No. 465,017.

Patented Dec. 15, 1891.



Witnesses:
E. H. Reader
W. F. Matthews

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UNITED STATES PATENT OFFICE.

JULIUS M. ELLER, OF CLEBURNE, TEXAS.

SWINGING CHAIR.

SPECIFICATION forming part of Letters Patent No. 465,017, dated December 15, 1891.

Application filed September 3, 1891. Serial No. 404,643. (No model.)

To all whom it may concern:

Be it known that I, JULIUS M. ELLER, a citizen of the United States, residing at Cleburne, in the county of Johnson and State of Texas, have invented certain new and useful Improvements in Swinging Chairs; and I do 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.

This invention has relation to an improvement in swinging chairs more especially adapted for children; and it has for its object to provide such a chair with means which will render the chair automatic in operation or require but little exertion from the child occupying it, there being little or no danger of the child falling out while the chair is swinging.

The invention will be fully understood from the following description and claims when taken in connection with the annexed drawing, in which my invention is illustrated in a perspective view.

Referring by letter to said drawing, A indicates a chair having the usual seat-back and arm-rests and may be a chair of any ordinary or approved construction. The chair I have illustrated is provided with a foot-rest *a*, suspended from hangers *b*, secured to the seat of a chair.

B indicates the suspending-ropes. These ropes are of the character usually employed on swings, and are designed to be secured at their upper ends by screw-eyes *c* or the like to a ceiling or other suitable support.

D indicates a cross-bar, which is secured transversely to the forward under side of the chair-seat and projects from the opposite sides of the chair, as shown, where it is preferably provided with knobs *d* or other suitable stops for the attaching-ropes. It will be observed that this bar is fixed out of the center of the chair-seat and in advance thereof, so that a child occupying the chair will find the rear portion yieldingly sustained, as will be presently described.

E indicates a rope, which is secured at its lower end to the rear side of the seat, as

shown at *e*, and after being secured to the back of the chair, as shown at *f*, has its opposite end attached to a spiral or coiled spring F, which spring may be in turn secured to the ceiling or other suitable support in a manner similar to the chair-suspending ropes.

In order to render my improvements capable of being employed on any ordinary chair-seat, I may provide the cross-bar D with such fastening devices as to make it readily detachable, in which cases the rope carrying the propulsioned spring might be provided with a screw-eye for attachment to the back of the seat, when the ropes, cross-bar, and spring may be placed upon the market as adapted for attachment to any chair.

From the construction described it will be readily understood that when a child sits in the chair, the spring given to his weight will have a tendency to impart a swinging motion to the chair, and by the child inclining his body backward and forward the spring will propel the chair by its alternate expansion and contraction.

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

1. The combination, with a chair, of the cross-bar secured to the forward under side of the seat, the suspending-ropes secured at one end to the opposite ends of said cross-bars, the rope secured to the rear side of the seat, and the propulsioned spring secured to the opposite end of said rope, substantially as specified.

2. The combination, with a chair-seat, of suspending-ropes attached at their lower ends to the opposite forward sides of the seat, a rope secured to the rear side of the seat, and a spiral or coiled spring secured to the opposite end of said rope, substantially as specified.

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

JULIUS M. ELLER.

Witnesses:

J. J. WILLIAMSON,
N. P. RAMSEY.