T. J. PALMER.
Rocking-Chair.

No. 198,810. Patented Jan. 1, 1878.

Fig. 3.

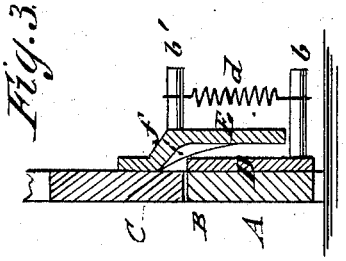


Fig. 2.

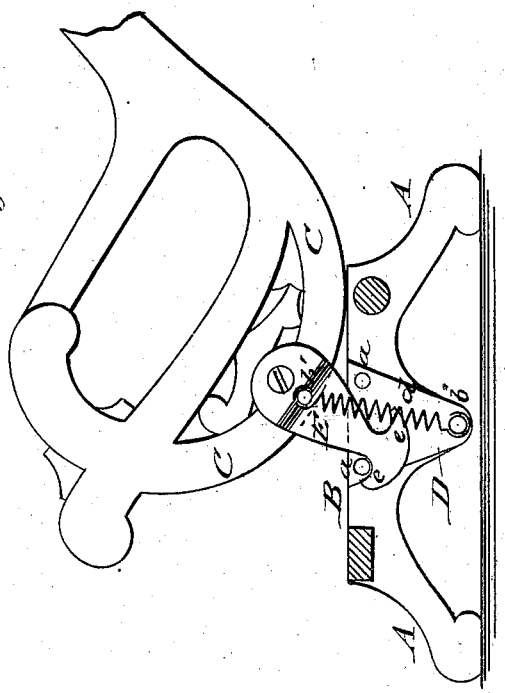
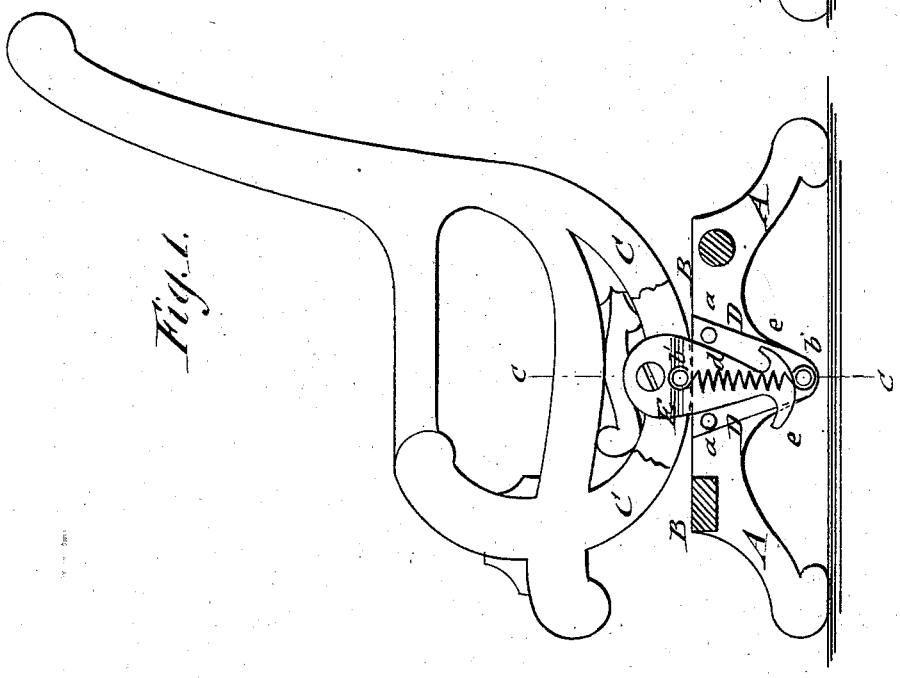


Fig. 1.



WITNESSES:

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UNITED STATES PATENT OFFICE.

THEODORE J. PALMER, OF NEW YORK, N. Y.

IMPROVEMENT IN ROCKING-CHAIRS.

Specification forming part of Letters Patent No. **198,810**, dated January 1, 1878; application filed September 22, 1877.

To all whom it may concern:

Be it known that I, THEODORE J. PALMER, of the city, county, and State of New York, have invented a new and Improved Rocking-Chair, of which the following is a specification:

In the accompanying drawings, Figures 1 and 2 represent sectional side elevations of my improved rocking-chair; and Fig. 3 is a detail vertical transverse section of the same on line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to an improved rocking-chair of simple, cheap, and reliable construction; and consists of a base part with straight horizontal top rails, and fixed plates with stop-pins, in connection with plain arc-shaped rockers of the seat-frame, having fixed center plates, with end hooks engaging the stop-pins, and with outer swells to keep the rocker in position on the base-rails, the rocker-plates being connected by strong spiral springs with the plates of the base-rails.

In the drawings, A represents the base part of my improved rocking-chair, which is supported on suitable legs, and provided with straight top rails B, on which the arc-shaped rockers C of the seat-frame of the chair swing, in the usual manner. The rails B, as well as the rockers C, are made with plain surfaces, without tongues and grooves, so as to exert as little friction as possible upon each other. At the inside of the base part, and centrally to the same, are screwed or otherwise attached plates D, of triangular shape, said plates having at the upper corners stop-pins *a*, and at the lower corner a longer projecting pin, *b*, to which a strong spiral spring, *d*, that connects the rocker-frame with the base part, is attached. To the rocker-frame are also attached central plates E, which are cast with a shoulder, so as to extend downward over the plates D of the base part A, the spiral springs *d* being attached to pins *b'* of the rocker-plates. The lower part of the rocker-plates E is made with forward and backward projecting hooks *e*, that bind when the seat-frame swings on its rockers, either on the front or rear stop-pins, so as to prevent the rocking frame from tilting off the base-frame.

When the rocking frame of the chair is returned by the springs into normal position on the base part, the plates of the rockers assume a vertical position, so as to nearly bear on both stop-pins, as shown in Fig. 1, while bearing at the beginning of the forward or backward motion of the rockers for an instant against the stop-pins, clearing the sides of plates, clearing then the pins again until the bottom hooks take hold of the same. The short connection of the stop-pins and rocker-plates causes the return of the rocking frame into normal position in the base-frame in case the rocking frame should have slid or changed slightly in longitudinal direction on the base-rails, the rocker-plates resuming their proper vertical position between the pins.

An outer curved swell, *f*, at the center of each rocker-plate E binds laterally on the plates D of the base part whenever the rocking frame is in its normal position, with its plates in vertical position, thus securing the position of the rockers on the base-frame in case they should, during the rocking motion, be slightly moved laterally out of their regular position on the rails of the base.

As the springs form the only direct connection of the base part and rocking frame, and render the latter liable to get out of its regular position on the base-rails, the stop-pins form the guard devices, by which the rockers are made to swing accurately in longitudinal direction, while the swells secure the rockers against any change of position in lateral direction. Thus a reliable and effective rocking-chair is produced by means of a simple and cheap attachment to the rockers and base part of the chair.

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

The combination of the base part A, provided with straight top rails and fixed center plates D, having stop-pins *a*, and the spring-connected rocking frame C, having fixed center plates E, with front and rear bottom hooks *e*, and outer swell portions *f*, substantially in the manner and for the purpose specified.

THEODORE J. PALMER.

Witnesses:
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