C. BRADA.

Rocking-Chair.

No. 163,145. Patented May 11, 1875.

Fig.1.

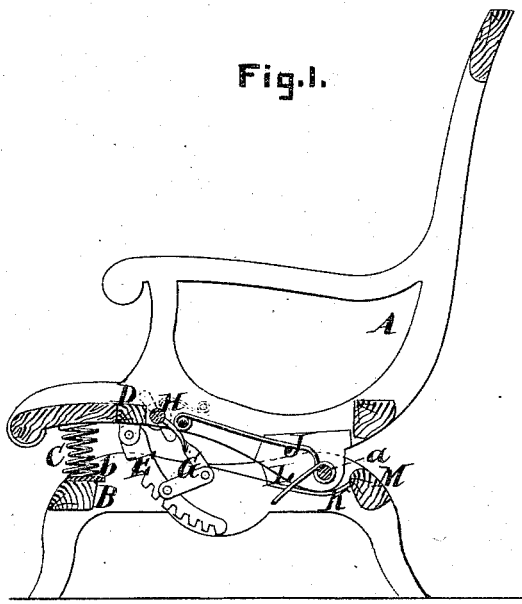


Fig.2.

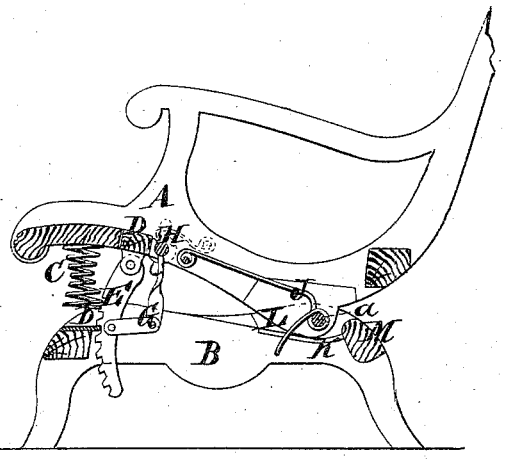


Fig.3.

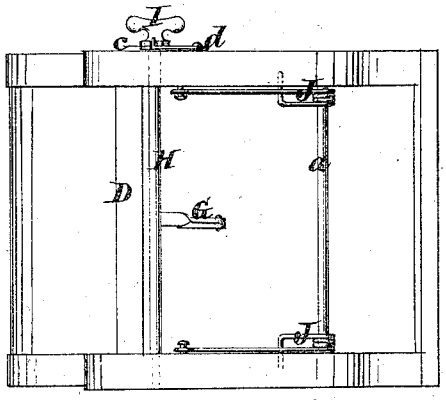
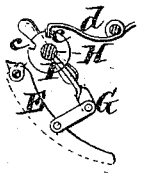


Fig.4.



Witnesses.

Ernst Bildhuber

Chas Wahlers

Inventor.

Charles Brada

per

Van Santvoord & Hauff

Attys

UNITED STATES PATENT OFFICE.

CHARLES BRADA, OF NEW YORK, N. Y.

IMPROVEMENT IN ROCKING-CHAIRS.

Specification forming part of Letters Patent No. **163,145**, dated May 11, 1875; application filed February 13, 1875.

To all whom it may concern:

Be it known that I, CHARLES BRADA, of the city, county, and State of New York, have invented a certain new and useful Improvement in Rocking-Chairs, of which the following is a specification:

This invention is illustrated in the accompanying drawing, in which—

Figure 1 is a vertical section of my chair in a movable condition. Fig. 2 is a similar section in a locked condition. Fig. 3 is a plan view. Fig. 4 is a detail view of the locking mechanism.

Similar letters indicate corresponding parts.

The invention relates to certain improvements in that class of chairs for which Letters Patent of the United States were granted to me October 20, 1874, No. 156,127.

My present improvement consists in combining a notched thumb-button and spring-stop with the locking-arm of the rocker, in such a manner that by adjusting the said button the locking-arm engages or disengages with its catch, and the rocker is rendered stationary or movable.

In the drawing, the letter A designates the rocker of my chair, which is connected to its supporting-frame B by means of a journal-rod, *a*. Round this rod the rocker turns or oscillates against the action of springs, hereinafter referred to, in such a manner that a tendency is given to the rocker continually to recover its equilibrium.

To a cross-piece, D, of the rocker is hinged the locking arm or bar E, which is provided with serrations so made as to be engaged by a catch, *b*, secured to the front cross-piece of the supporting-frame. The arm E is connected to one end of an elbow-lever, G, the other end of which is secured to a rock-shaft, H, which extends through the side of the rocker and is keyed to a thumb-button, I, Figs. 3 and 4. In the shank of this button are notches *c*, which are engaged by a spring-stop, *d*, so that the button is prevented from turning by accident. When the button is turned the locking-arm E is thrown either in or out of engagement with its catch *b*, and by this means the rocker is rendered either stationary or movable. The notches *c* of the thumb-button are, in the present example, two in number, and are so disposed that when the spring-stop *d* enters one of them the locking-arm E engages with its catch *b*, and vice versa.

By the arm E the rocker can be locked or held stationary in any position.

On the front cross-piece of the supporting-frame B, and between it and a cross-piece of the rocker A, are situated springs C, one end of which is fastened either to the rocker or to the supporting-frame B, while the other end is loose,

Auxiliary wire springs J are coiled around the journal *a* of the rocker, one end being secured to the supporting-frame, while the other end is secured to the rocker, whereby equal and great tension is obtained, as the spring coils and uncoils, when the rocker moves backward and forward.

The supporting-frame may be provided with a metallic lining, K, and the rocker-frame likewise provided with a metal strengthening-plate, L, whereby these parts are rendered capable of withstanding strain and wear. A stop, M, is arranged at the rear of the supporting-frame to limit the backward movement of the rocker-frame.

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

The combination, with the rocker A and supporting-frame B, having a catch, *b*, of the locking-arm E, lever G, rock-shaft H, thumb-button I, and stop *d*, substantially as and for the object specified.

In testimony that I claim the foregoing, I have hereunto set my hand and seal this 8th day of February, 1875.

CHARLES BRADA. [L. S.]

Witnesses:

CHAS. WAHLERS,

E. F. KASTENHUBER.