E. A. C. HESSE.
Rocking-Chair.

No. 200,296. Patented Feb. 12, 1878.

Fig. 1.

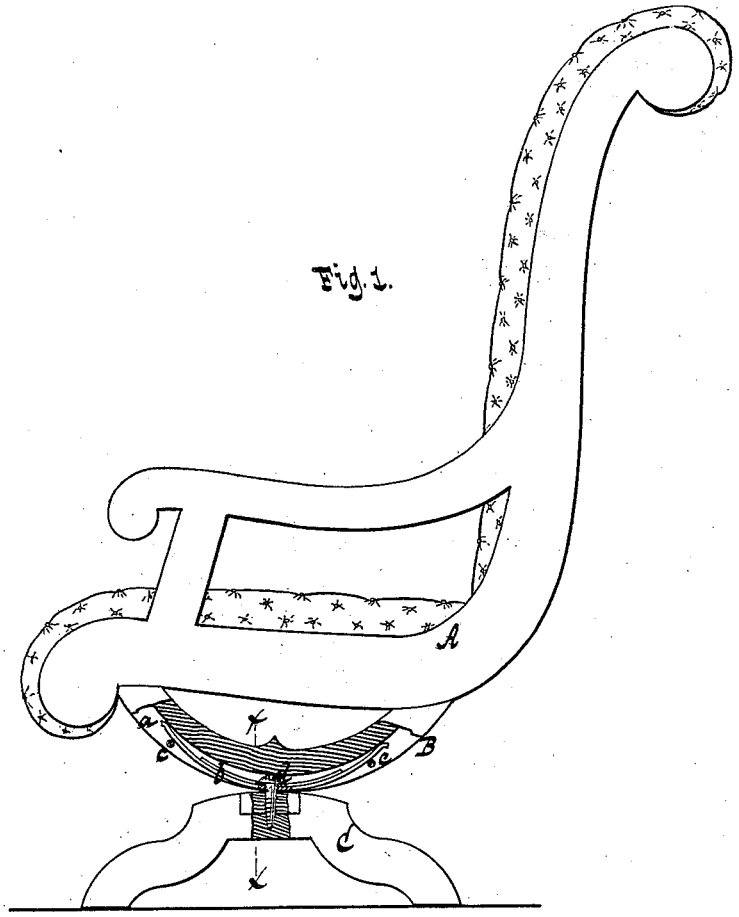


Fig. 2.

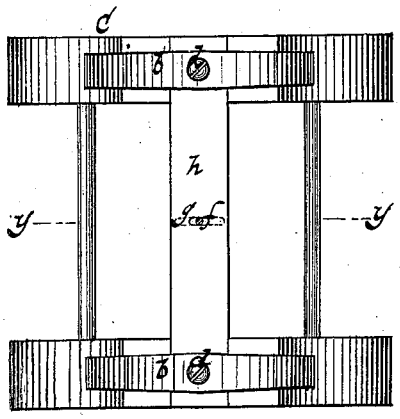


Fig. 3.

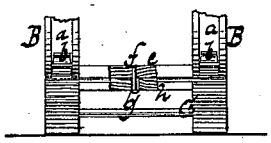
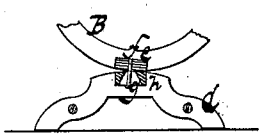


Fig. 4.



Witnesses
Otto Seufland.
Hugo Bruggemann

Inventor.
Ernst A. C. Hesse by
Van Santvoord & Hauff
his attorneys

UNITED STATES PATENT OFFICE.

ERNST A. C. HESSE, OF BROOKLYN, E. D., NEW YORK, ASSIGNOR TO HIMSELF AND JOHN H. C. LANGE, OF SAME PLACE.

IMPROVEMENT IN ROCKING-CHAIRS.

Specification forming part of Letters Patent No. **200,296**, dated February 12, 1878; application filed December 5, 1877.

To all whom it may concern:

Be it known that I, ERNST A. C. HESSE, of Brooklyn, E. D., in the county of Kings and State of New York, have invented a new and useful Improvement in Rocking-Chairs, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a sectional side view. Fig. 2 is a plan or top view of the supporting-frame. Fig. 3 is a transverse section in the plane *x x*, Fig. 1, on a smaller scale than the previous figures. Fig. 4 is a longitudinal section in the plane *y y*, Fig. 2.

Similar letters indicate corresponding parts.

This invention relates to that class of rocking-chairs in which the spring connection between the rocker-frame and the supporting-frame is made by means of two longitudinal flat springs, attached at their center, one at each side of the supporting-frame, and having their ends connected to brackets on the rocker-frame.

This invention consists in the combination, with the rockers and with their supporting-frame, of two springs, which are situated in recesses formed in the rockers, their ends being retained by pins secured in the rockers, while said springs are fastened in the middle to the supporting-frame by screws or other suitable fastenings, so that the rockers bear upon the surface of the supporting-frame, and in imparting to the chair a rocking motion each spring exerts a double action, one end bearing down and the other up.

In the drawing, the letter A designates a chair, which is provided with two rockers, B. These rockers rest upon a supporting-frame, C, and each of them is provided in its under surface with a groove or recess, *a*. In each of these recesses is placed a spring, *b*, the ends of which bear upward against their respective rockers, and are confined in their position by pins *c*, extending transversely across the recesses or grooves *a*. Each of said springs is fastened in its middle to the supporting-frame by a screw, *d*, or by any other suitable fastening.

In the example shown in the drawing, each of the springs *b* is made of two leaves, which overlap each other, as shown in Fig. 1; but each spring may be made of three or more leaves, or a single leaf may be used, according to the size of the chair to which the same is applied.

For the purpose of fastening the springs to the supporting-frame, I propose to use in practice clips which embrace the springs, so that said springs will not be weakened by screw-holes.

The rockers B are connected by a traverse, *e*, Figs. 3 and 4, in which is firmly secured a pin, *f*, that extends through a tapering slot, *g*, Fig. 4, in a traverse, *h*, which is fastened to the supporting-frame C. This pin forms a stop, whereby the rocking motion of the chair is confined within certain limits, and the danger of upsetting the chair by a too violent rocking motion is avoided.

In imparting to the chair a rocking motion each of the springs *a* exerts a double action, one of its ends bearing upward while the other bears down, so that a comparatively weak spring is sufficient to produce the desired effect. Furthermore, by placing the springs in the grooves *a*, they are firmly retained in position, and they are concealed, so that they do not mar the appearance of the chair. By means of the springs *b* the chair is held securely in position on its supporting-frame.

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

In a rocking-chair, the combination of the rockers B, each constructed with a longitudinal groove, *a*, formed in its lower bearing-edge, and the flat springs *b* arranged within said grooves, and having their free and disconnected ends confined within the grooves by pins, said springs being attached at their centers to the supporting-frame C, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 28th day of November, 1877.

ERNST A. C. HESSE. [L. S.]

Witnesses:

W. HAUFF,

JOHN LANGE.