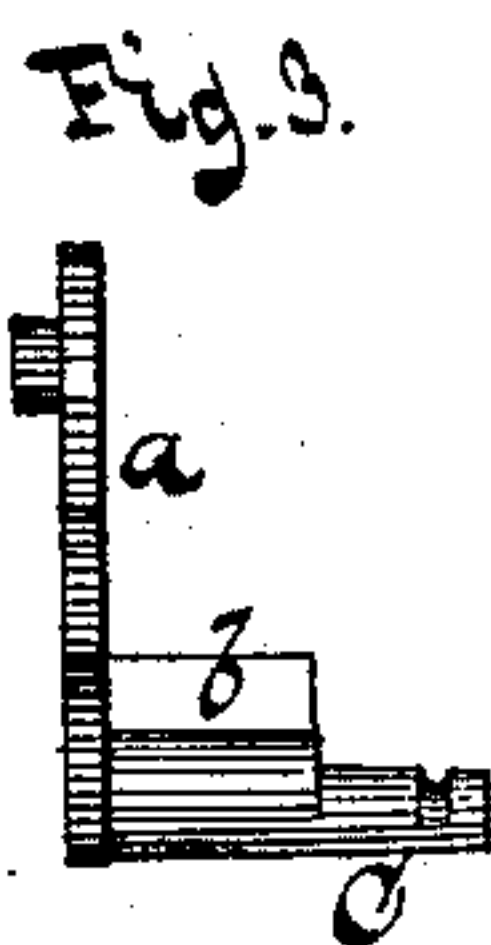
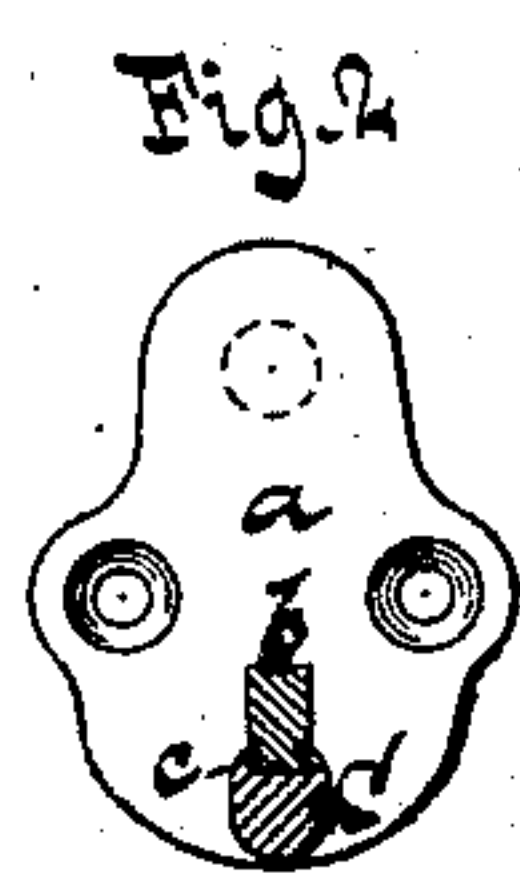
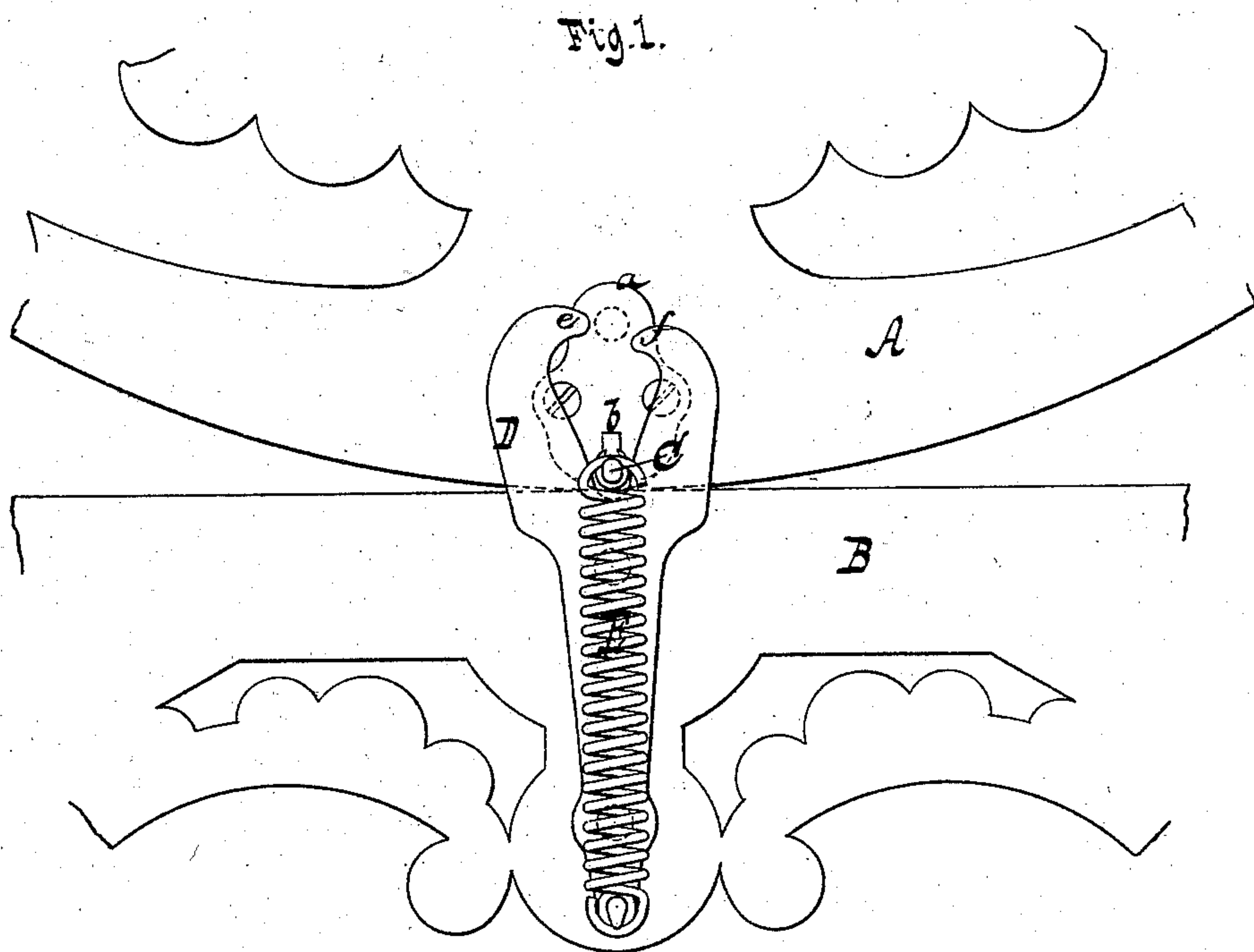


F. RHONER & S. WILLERSHAUSEN.
Rocking-Chair.

No. 203,294.

Patented May 7, 1878.



Witnesses
Otto Hufeland.
Hugo Brueggemann.

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UNITED STATES PATENT OFFICE.

FRANK RHONER AND SIEGFRIED WILLERSHAUSEN, OF NEW YORK, N. Y.

IMPROVEMENT IN ROCKING-CHAIRS.

Specification forming part of Letters Patent No. **203,294**, dated May 7, 1878; application filed March 28, 1878.

To all whom it may concern:

Be it known that we, FRANK RHONER and SIEGFRIED WILLERSHAUSEN, both of the city, county, and State of New York, have invented a new and useful Improvement in Stops for Rocking-Chairs, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 shows our invention applied to a rocking-chair. Fig. 2 is a cross-section of the stop-pin, showing also its supporting-plate. Fig. 3 is a side view thereof. Fig. 4 is a top view of the same.

Similar letters indicate corresponding parts.

Our improved stop for rocking-chairs consists in a stop-pin projecting laterally from a suitable plate, and having secured thereto a cushion of india-rubber or similar material, and two counter stops or arms projecting from a separate plate and arranged on each side of said pin, both of said plates being adapted for attachment to the base and rocker, respectively, of a rocking-chair; and, further, in the combination, with said devices and the rocker and base-frame of a rocking-chair, of a spring connecting said rocker and base-frame, all of which will be hereinafter more particularly described.

In the drawing, the letter A designates portion of a rocker, and B is portion of a supporting-frame, on which the rocker rests, as in a chair. C is a stop-pin, which is cast on a supporting-plate, *a*, secured to the rocker, and D is a slotted plate, which is secured to the frame B, and whose slot embraces the pin C, the slot in this plate being so shaped that it constitutes a guide, and also counter-stops, *ef*, for the pin C, and being open at the top to permit of lifting the chair off the base-frame. The pin C is also connected to one end of a spring, E, the other end of which is fastened to the base-frame.

The letter *b* designates a cushion of india-rubber or other similar material attached to the stop-pin C. This cushion may, if desired, be made of tubular form, and to entirely surround the stop-pin C; but we prefer to make the same in form of a block, which is forced into a longitudinal groove, *c*, formed in the pin for this purpose, this groove being dove-

tailed and being located on that part of the pin which is uppermost when the same is fastened to the rocker. The cushion *c* is thus firmly held in position while it is brought on the upper part of the stop-pin C—that is to say, on that part thereof which is brought in contact with the counter-stops *ef* of the plate D when the chair is rocked. The concussion between the stop-pin C and counter-stops is deadened to the greatest possible extent.

The advantage of arranging the cushion *c* in the manner shown is that it is not subjected to any unnecessary wear, the same being out of contact with any object or surface, except when performing its function.

In order to insure the retention of the cushion *b* in the groove *c* the latter may be made of tapering form in the direction of its length, as shown in Fig. 4.

It may be remarked that the counter-stops *ef* can be formed in other ways than by means of the slotted plate D without departure from our invention.

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

1. A stop for rocking-chairs, consisting of a stop-pin projecting laterally from a suitable plate, and having secured thereto a cushion of india-rubber or similar material, and two counter-stops or arms projecting from a separate plate and arranged on each side of said pin, both of said plates being adapted for attachment to the rocker and base-frame, respectively, of a rocking-chair.

2. The combination of the rocker A and base-frame B of a rocking-chair with the plate *a*, having the projecting pin C, provided with the cushion *b*, the plate D, having the hooked forks *ef* extending above the stop-pin, and the spring connecting the stop-pin with the base-frame, substantially as and for the purpose set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 21st day of March, 1878.

FRANK RHONER.

SIEGFRIED WILLERSHAUSEN.

Witnesses:

W. HAUFF,

CHAS. WAHLERS.