H. WICHERT.

Elastic Attachment to Rocking-Chairs.

No. 217,920. Patented July 29, 1879.

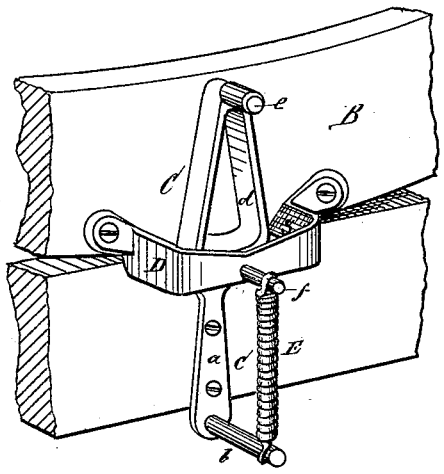


Fig: 1.

Fig: 2.

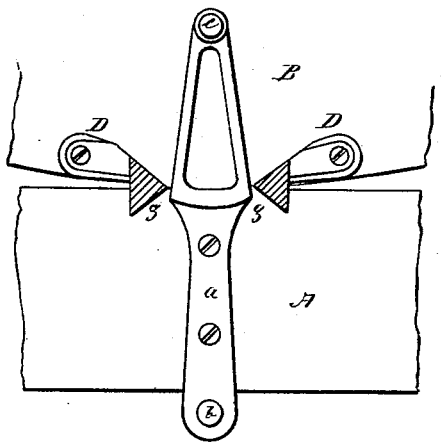
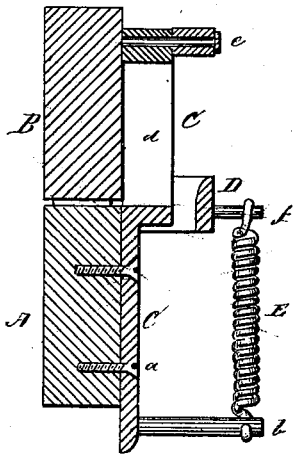


Fig: 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

HEINRICH WICHERT, OF CHICAGO, ILLINOIS, ASSIGNOR TO JOSEPH ZANGERLE & CO., OF SAME PLACE.

IMPROVEMENT IN ELASTIC ATTACHMENTS TO ROCKING-CHAIRS.

Specification forming part of Letters Patent No. **217,920**, dated July 29, 1879; application filed April 22, 1879.

To all whom it may concern:

Be it known that I, HEINRICH WICHERT, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Elastic Attachments to Rocking-Chairs; and that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

The nature of my invention relates to attachments for that class of rocking-chairs in which the rocking frame rests upon a base or supporting frame; and it is my object to provide such an attachment as will not only hold the rocker centrally upon its base, but also will yield to and facilitate the rocking movements of the chair.

My invention consists in the peculiar construction and arrangement of two fixtures attached relatively to the base and rocker of a chair, and of a spiral spring in combination therewith, as more fully hereinafter will be described.

In the drawings, Figure 1 represents a perspective view of a portion of the base and rocker for a chair with my fixtures and spring attached. Fig. 2 represents a sectional elevation, and Fig. 3 a transverse vertical section of the same.

Like letters in the several figures of the drawings designate like parts.

A represents a portion of the base-frame, and B of the rocker, of a chair, both of which are constructed in the usual manner. The fixture C is composed of a flat plate, *a*, which, by wood-screws, is secured against the inward face of the base-rail A, and is provided with a rectangularly-projecting stud, *b*, to its lower extremity, having a notch in its end to form a hook for the lower spring end. This plate *a* has a widened and upwardly-tapering extension, *d*, which forms a shoulder to the rocker B of the chair, for holding the same laterally in line upon the base, and to the uppermost end of this vertical extension is secured a stud, *e*, rectangularly projecting, which holds a rubber thimble for forming an elastic stop, which will limit the rocking movement of the chair toward both directions.

D is a U-shaped casting, having flanges to its ends for securing it by wood-screws against the inward face of the rocker, and a stud, *f*, projects off its center, which is notched in its end for receiving the upper spring end. This U-shaped piece embraces the tapering extension *d* of fixture C, and has a knife-edge, *g*, formed to each of its inward end faces, which are located to be exactly on the line with the lower or riding edge of the rocker, and such distance apart to closely meet the faces of the tapering extension *d* of fixture C while the rocker is in its central or resting position upon the base. These knife-edges alternately will follow the adjoining tapering face of fixture C, and will hold the rocker longitudinally central upon the base-rail.

E is a spiral spring, with hooks or loops formed to its ends, which are placed over the studs *b* and *f*, and into the notches in the ends of the same. This spring, while rocking the chair, will be extended with each movement, and by its elastic resistance it will facilitate such motion.

The knife-edges *g* being exactly on the meeting-line of the rocker and base, and the stud *f* extending from the same line, there is no tendency for the rocker to slip upon its base, since the spring E will retain its vertical position during the whole extent of the rocking movement of the chair, which would not be so were said stud *f* in a position above the line of contact between rocker and base, while the knife-edges will so guide the rocker that it cannot be forcibly deviated from its central position.

The casting D striking against the rubber thimble on stud *e*, it will limit the extent of the rocking movement beyond a safe degree of extension for the spring.

This attachment, while controlling the motions of the chair and facilitating the rocking movements of the same, will be perfectly noiseless in its actions, and is simple in construction and easily secured to the rockers and base.

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

1. In combination with fixture C, secured to the base A, and having tapering extension *d*, the U-shaped piece D, secured to the rocker

of a chair, having knife-edges *g*, substantially as and for the purpose set forth.

2. In combination with the base A, having fixture C, with studs *b*, and tapering extensions *d*, with stud *e*, the rockers of a chair having U-shaped castings D, with studs *f* and knife-edges *g*, and the spring E, the same to be constructed and arranged for operating substantially in the manner described, for the purpose specified.

HEINRICH WICHERT.

Witnesses:

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