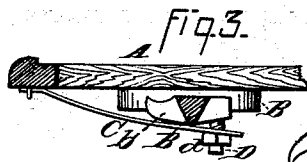
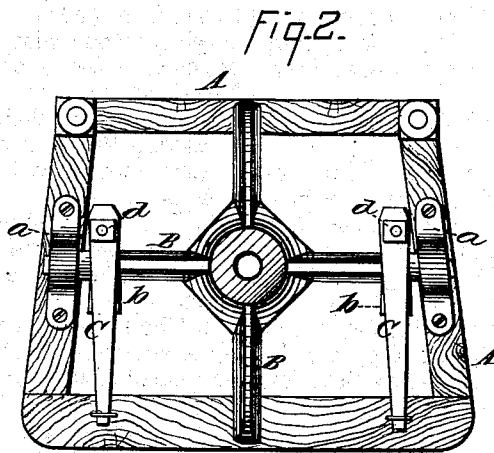
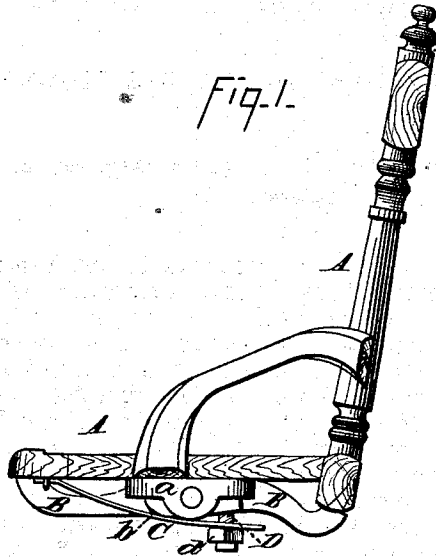


R. W. MYERS.
Tilting-Chairs.

No. 158,388.

Patented Jan. 5, 1875.



WITNESSES=

Jas. C. Hutchinson
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UNITED STATES PATENT OFFICE

R. WESTBROOK MYERS, OF NEW YORK, N. Y.

IMPROVEMENT IN TILTING-CHAIRS.

Specification forming part of Letters Patent No. 158,388, dated January 5, 1875; application filed October 23, 1874.

To all whom it may concern:

Be it known that I, R. WESTBROOK MYERS, of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Chairs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a side view of my improved tilting mechanism for chairs. Fig. 2 is a plan view of the same, and Fig. 3 a detached view thereof.

Corresponding parts in the several figures are designated by like letters.

This invention relates to a certain improvement in tilting-chairs; and it consists in providing the spider, which supports the body of the chair upon its legs, with cams to act as bearings for those ends of the springs at which they are attached to the spider, the opposite ends of said springs resting against the front bar of the seat-frame; and, secondly, in providing the said springs with mechanism for regulating their tension, substantially as hereinafter more fully set forth.

In the annexed drawing, A refers to the body of a chair, combining the seat-frame, arms, and back, to the lower side of which frame are secured bearings *a a* for the ends of one of the cross-bars of the spider B, the said ends being rounded to permit of the vibration of the

body of the chair thereon. The said cross-bar or axis is provided with cams *b b*, one on either side of its center, with the lower side of their surfaces made convex to adapt them to the curvature imparted to the springs, attached at one end thereto, when the body of the chair is tilted or inclined backward. These cams, by reason of their curvature and the great amount of bearing-surface they afford the fast ends of the springs, prevent the sudden bending, and consequent tendency to breakage, of the springs. The springs are designated by the letters C C, have their free ends confined to the front bar of the seat-frame by means of staples, or otherwise, and are attached, at their opposite or fast ends, to the heels of the cams *b b* by means of set-screws D D, with nuts *d d* for regulating their tension.

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

1. The combination, in a tilting-chair, of the spider B, having the cams *b b*, with the springs C C, substantially as and for the purpose set forth.

2. The spider B, cams *b*, springs C, and tension-regulating mechanism D *d*, in combination, substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

R. WESTBROOK MYERS.

Witnesses:

SAMUEL MULLEN,
JOHN H. GROSS.