2 Sheets—Sheet 1.

J. LEMMAN.

TILTING-CHAIR.

No. 172,040. Patented Jan. 11, 1876.

Fig. 1

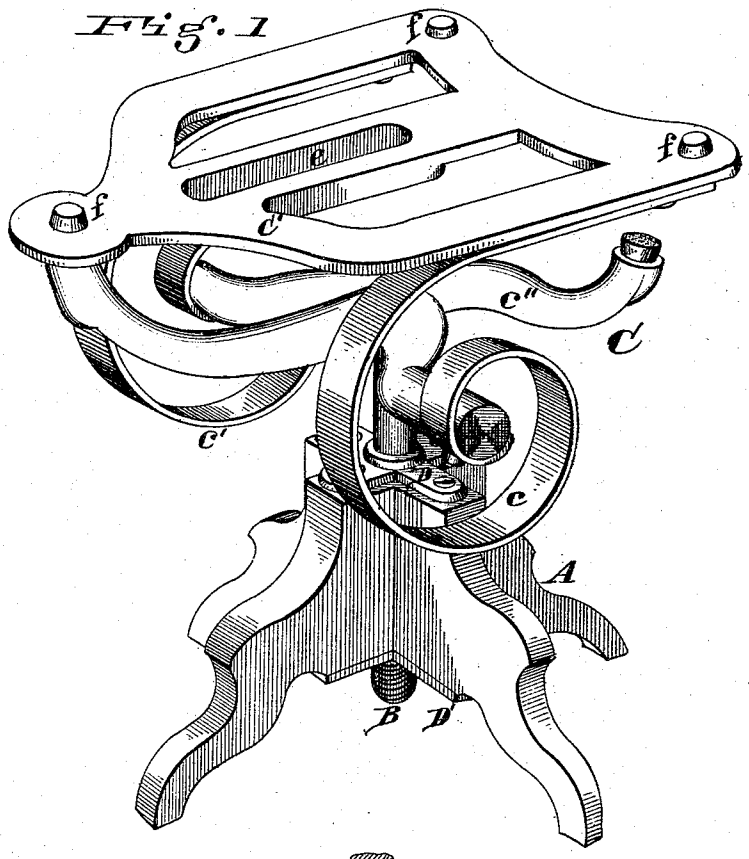
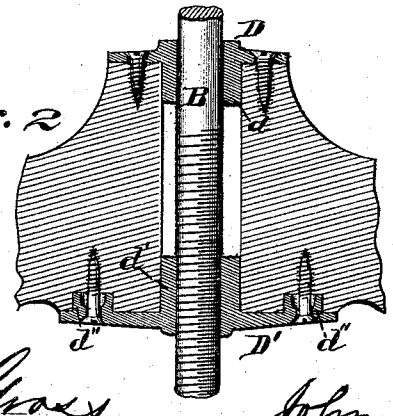


Fig. 2



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2 Sheets—Sheet 2

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Fig. 3

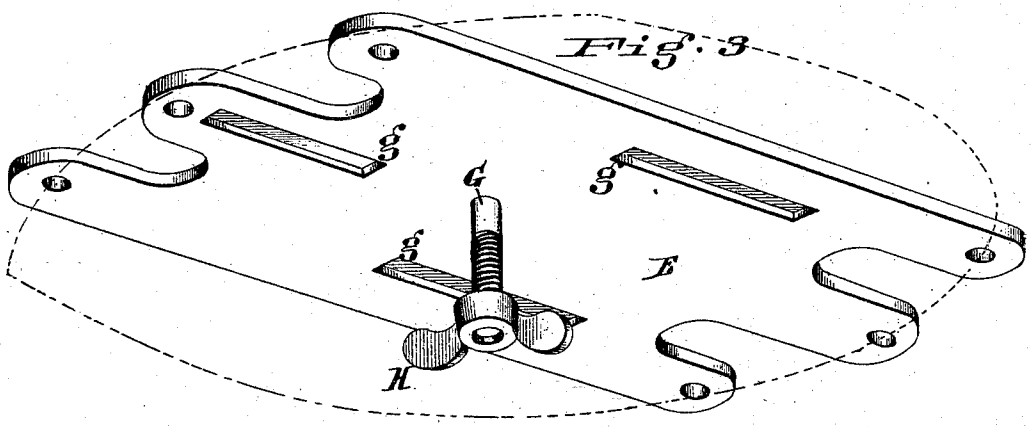
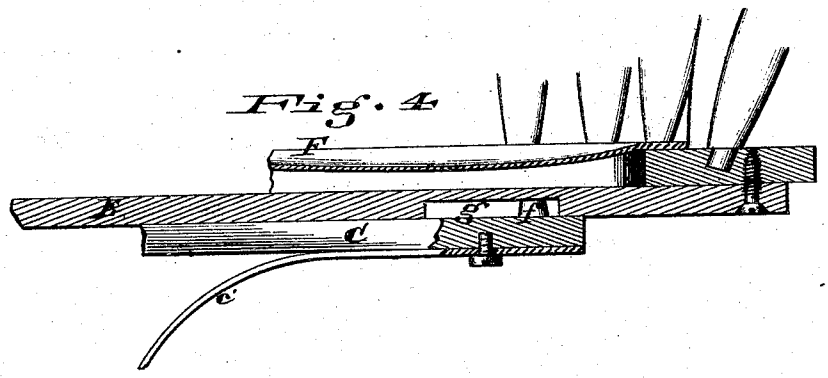


Fig. 4



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UNITED STATES PATENT OFFICE.

JOHN LEMMAN, OF CINCINNATI, OHIO.

IMPROVEMENT IN TILTING CHAIRS.

Specification forming part of Letters Patent No. **172,040**, dated January 11, 1876; application filed October 28, 1875.

To all whom it may concern:

Be it known that I, JOHN LEMMAN, of Cincinnati, Hamilton county, State of Ohio, have invented Improvements in Reclining-Chairs, of which the following is a specification:

My invention is designed as an improvement upon the chair for which Letters Patent were granted me May 25, 1875; and consists in a new and improved method of securing the seat to the spring-frame, so as to admit of adjustability and fastening when adjusted by the use of a single screw only.

In the accompanying drawings, Figure 1 is a perspective view of the stand and spring-frame. Fig. 2 is a sectional view of the center of the stationary stand, showing the construction and manner of attaching the devices which control and steady the central screw. Fig. 3 is an under side perspective view of the seat-frame. Fig. 4 is a sectional view of the spring-frame, seat-frame, and seat.

A is the stationary stand; B, the adjusting-screw; and C the spring-frame, the latter consisting of side springs *c c'*, spider *c''*, and top plate C'. In order to firmly secure and guide the screw B, without exposing its screw-threads above the base A, I provide two plates, D D', the upper one having a cylindrical socket, *d*, to receive and guide the smooth part of the screw, as shown in Fig. 2, and the lower one having a socket, *d'*, which is screw-threaded interiorly, as shown, to fit the threads of the screw. The plate D' has projecting bosses *d''*, fitting closely into bored recesses in the base A, to assist in holding the separate parts of the base together. The top plate C' of the spring-frame is formed with a central slot, *e*, and three projections, *f*. A plate, E, is provided, secured to the chair-bottom frame F, as shown in Fig. 4, from which plate a central screw, G, projects, which passes through the slot *e*, and is fitted with a thumb-nut, H. This plate E is provided also with long recesses *g*, which fit and slide over the projections *f* of the plate C'. By the provision of the slot *e* and screw G the chair-bottom may be adjusted with reference to the springs to suit the weights of different persons, and secured at any point of adjustment by the nut H, the projections and recesses *f g* serving to properly guide the chair-bottom during the process of adjustment. The leverage of the seat-frame on the springs being increased or diminished by this adjustment will, of course, result in a corresponding change in the elasticity of the seat.

I claim—

The combination of plate C', having slot *e* and projections *f*, with the plate E having central screw G H and recesses *g*, the two being connected and operating substantially as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

JOHN LEMMAN.

Witnesses:

EDWARD J. GROSS,

JOHN E. JONES.