

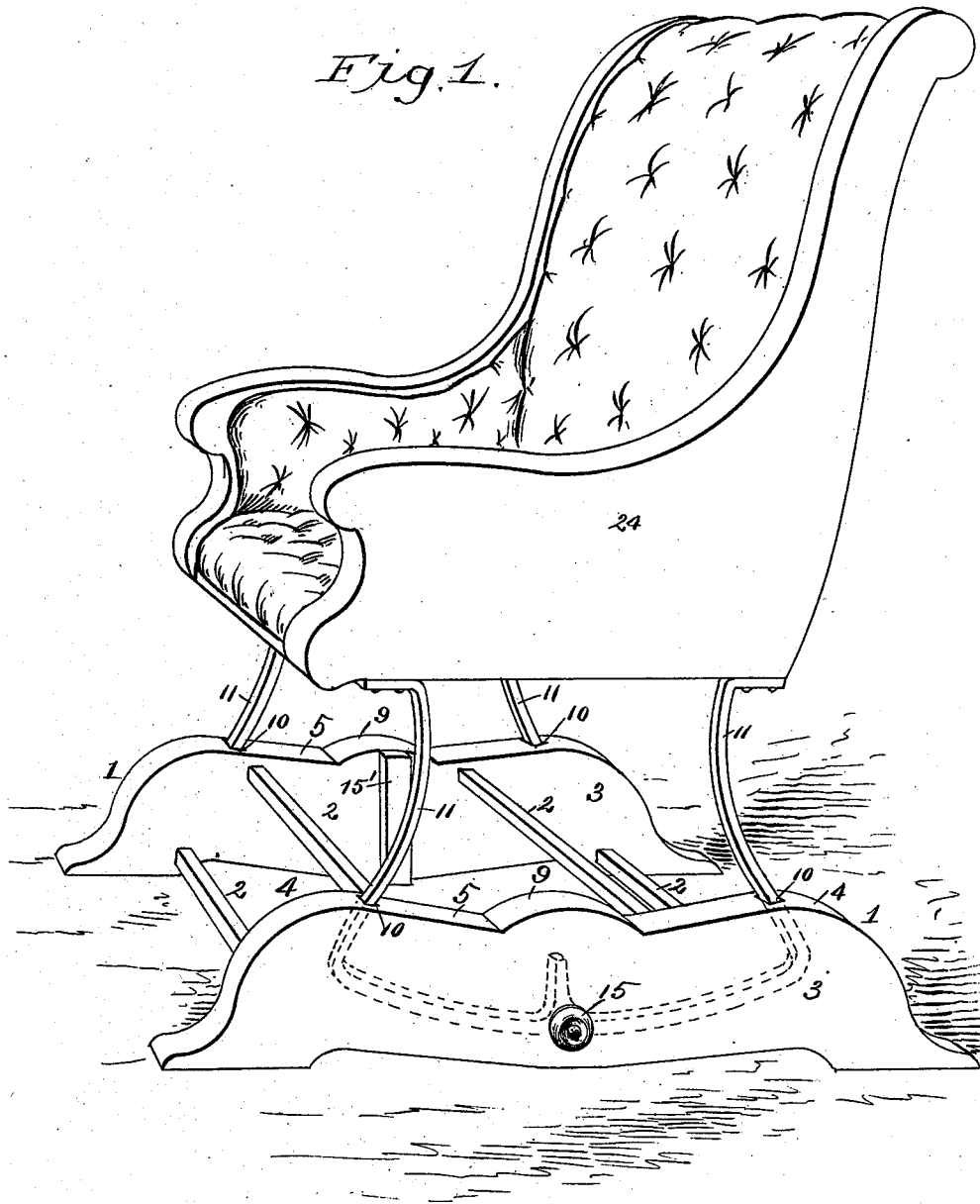
(No Model.)

2 Sheets—Sheet 1.

L. C. GUNN.
ROCKING CHAIR.

No. 400,564.

Patented Apr. 2, 1889.



WITNESSES:
J. D. Sanford
C. Deatrick

INVENTOR,
L. C. Gunn
BY
Munn & Co
ATTORNEYS

(No Model.)

2 Sheets—Sheet 2.

L. C. GUNN.
ROCKING CHAIR.

No. 400,564.

Patented Apr. 2, 1889.

Fig. 2.

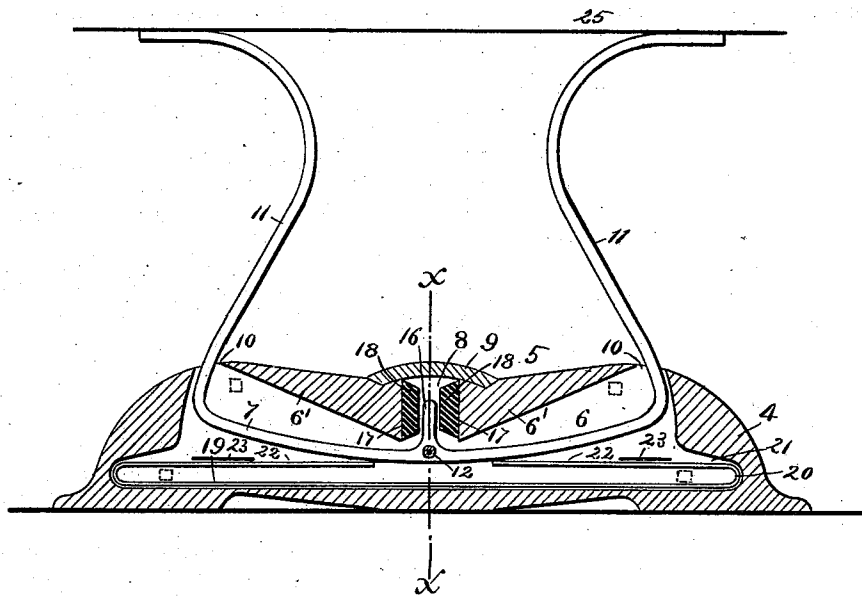
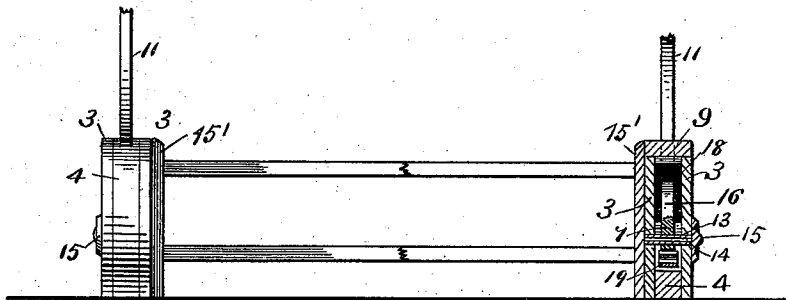


Fig. 3.



WITNESSES:

J. D. Garfield
C. Betzwick

INVENTOR.

L. C. Gunn

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

LEWIS CARSTAIRS GUNN, OF SAN DIEGO, CALIFORNIA.

ROCKING-CHAIR.

SPECIFICATION forming part of Letters Patent No. 400,564, dated April 2, 1889.

Application filed April 21, 1888. Serial No. 271,398. (No model.)

To all whom it may concern:

Be it known that I, LEWIS CARSTAIRS GUNN, of San Diego, in the county of San Diego and State of California, have invented a new and Improved Rocking-Chair, of which the following is a full, clear, and exact description.

The invention consists in a chair of this kind constructed and arranged as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of a rocking-chair constructed in accordance with this invention. Fig. 2 is a detail view of one of the rockers, with a portion of the base in vertical longitudinal section; and Fig. 3 is an end view of the base, with rockers broken off and one of the side pieces of the base in vertical cross-section on the line *x x*, Fig. 2.

The invention will be first described, and then specifically pointed out in the claims.

In the construction of this invention the base consists of two boxings or casings, 1, connected together by cross-bars 2, and constructed in any suitable manner. As here shown, the boxings 1 consist of side strips, 3, bottom and end filling-pieces, 4, and top piece, 5, forming the interior space, 6, in which is located the rockers 7. The top piece, 5, is formed in two parts, 6', having a space, 8, located between their adjacent ends, which is bridged over by the curved piece 9. Between the end pieces, 4, and the outer ends of pieces 6' are located holes or slots 10, through which pass the legs 11 of the rockers 7. The several inclosing parts of the boxing 1 are so joined together and finished as to present the appearance of a solid piece of wood. The rockers 7 are centrally pivoted on bearings 12, mounted in the sides of casings 1. The bearings 12 preferably consist of a piece of brass tubing, 13, with a core of steel, 14, the outer end of tube 13 being secured to a rosette, 15, or other form of covering for the outer end of the tube. The inner end of the tube 13 is covered by a cleat, 15', or other suitable covering. In lieu of the bearings 12, a single shaft may be employed, extending from boxing to boxing and covered by a hollow stationary cross-bar similar to one of the cross-bars 2,

or any other form of bearing may be used for the rockers 7, constructed of any suitable material. The shape and size of the interior space, 6, is such as to permit of a free movement of the rockers 7, the legs 11 thereof being curved so as to allow of their free movement through the holes 10. Those portions of the legs 11 which move through the slots 10 during the rocking movement are in practice curved to correspond with the arc described by the rockers when rocking on their axes or bearings 12, and therefore the said curved portions have an unvarying movement through the slots, thereby avoiding friction, and at the same time leaving no dangerous openings for the fingers of young children.

To limit the movement of the rockers and to relieve the bearings 12 of unnecessary strain, they are each formed with a brake or stop, 16, which consists of a vertical projection extending up into the recess 8 between the inner ends, 17, of pieces 6', which serve as stops for the rockers 7, and against which the brake 16 strikes in the movement of the rockers. To prevent jar, the inner ends of the pieces 6' are covered with cushions 18, of rubber or other soft material. To further aid in giving the rockers 7 an easy and yielding movement, thereby avoiding any jar, an elastic bearing is located beneath the rockers, which may be constructed of any suitable shape and material, and, as here shown, consists of a steel strip, 19, extending over the bottom of the space 6 and having its folded ends 20 located in recesses 21, with the elastic end projections, 22 22, nearly meeting and extending between the rockers 7, said projections 22 exerting a tension on the rockers during their entire movement. By means of this construction the outer portions of the rockers in their movement are provided with a yielding bearing, which, by means of the tension exerted on the projections 22 22, acts not only as a cushion, but also to aid in returning the chair to its upright position. The top of the projections 22 is covered with india-rubber 23 or other soft material to deaden the sound and protect the metal. The covering 23 may be secured in place in any suitable manner.

In lieu of brake 16 and cushioned stops 17 to limit and regulate the rocking movement,

the under side of the top pieces, 5, may be provided with elastic cushions, which will serve as stops and a brake.

A chair-seat, 24, may be directly fastened to the legs 11, as shown in Fig. 1, or to a strip, 25, which in turn is secured to the legs 11, as shown in Fig. 2. The rear legs may be of less height than the forward ones to incline the seat of the chair, or of equal heights, as shown.

While I have described a particular construction of parts, I do not intend to confine myself thereto, as they may be varied without departing from the essential features of the invention.

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

1. The combination, with the chair-base comprising two connected parallel recessed boxes having slots 10 through their upper faces, of the curved rockers 7, mounted on transverse pivots within the said boxes above the bottoms thereof and provided with arms 11 at their ends extending up through said slots, and longitudinally-extending springs 22 in the bottoms of said boxes and bearing at their adjacent ends upwardly against the lower faces of the rockers at opposite sides of and below their pivots, substantially as set forth.

2. The combination, with the recessed or slotted chair-base, of the curved rockers pivoted between their ends within said recesses, and having upwardly-projecting arms at their ends passing through said slots and curved thereat to correspond with the arcs described by the ends of the rockers, and springs bearing against the lower faces of the rockers at opposite sides of their pivotal points, substantially as set forth.

3. In a chair, the curved rocker 7, having upwardly and inwardly projecting arms 11 at its ends, curved at their juncture with the rocker, and the vertical stop or brake 16, projecting from the upper face of the rocker in line with the axis or pivotal point, substantially as set forth.

4. The combination, with the chair-base comprising two connected parallel recessed boxes having slots 10 through their upper faces and a central or intermediate recess, 8, having cushions 18, of the rockers 7 within the recessed boxes, and having arms 11 at their ends projecting up through the slots 10 and curved thereat, and a vertical central stop or brake, 16, extending up into the recess 8, the transverse bearings 12, extending through the rockers below their stops or brakes, and the longitudinally-extending springs 19, resting in the bottoms of the recessed boxes and having their ends bent back upon themselves, as shown at 22, and bearing at their free ends against the lower face of the rockers at opposite sides of the bearings 12.

5. The combination, with the boxes 3, having longitudinally-extending recesses or spaces 6, slots 10, and intermediate upper recess, the front and rear walls of which form stops 17, and cushions 18 on said walls, of the rockers 7 within the said recesses 6, and having upwardly-projecting curved arms 11 at their ends extending through the slots 10, and vertical brakes or stops 16 on their upper faces extending up between the cushions 18, and transverse bearings extending through the said rockers under their brakes or stops 16, substantially as set forth.

6. The rocking-chair 24, having the inclined and curved legs 11 and rockers 7, with brake 16, mounted on a base consisting of the boxings 3, connected by cross-bars 2 and formed with slots 10, recess 8, and stops 17, with elastic cushions 18, and having the steel strip 19, with elastic projections 22, covered with soft material 23, located beneath the rocker 7, the brake 16 being located in recess 8 between cushioned stops 17, substantially as described.

LEWIS CARSTAIRS GUNN.

Witnesses:

DOUGLAS GUNN,
CHAS. S. HAMILTON.