2 Sheets--Sheet 1.

W. T. DOREMUS.

Chair Bases.

No. 165,718. Patented July 20, 1875.

Fig. 1

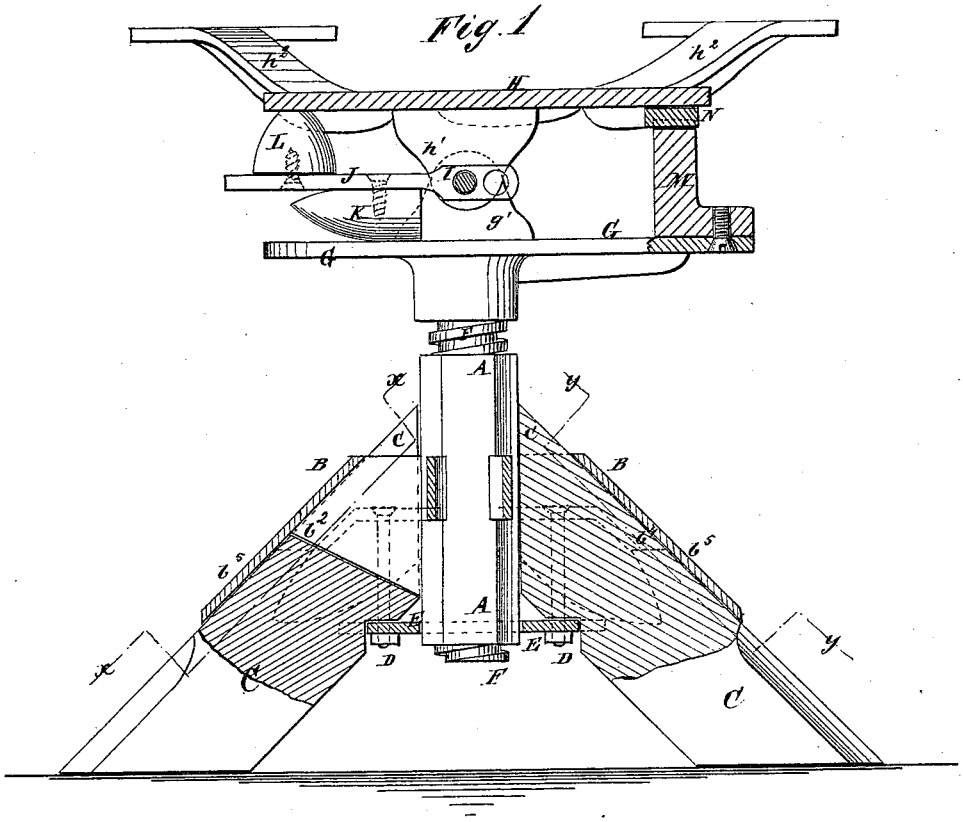


Fig. 2

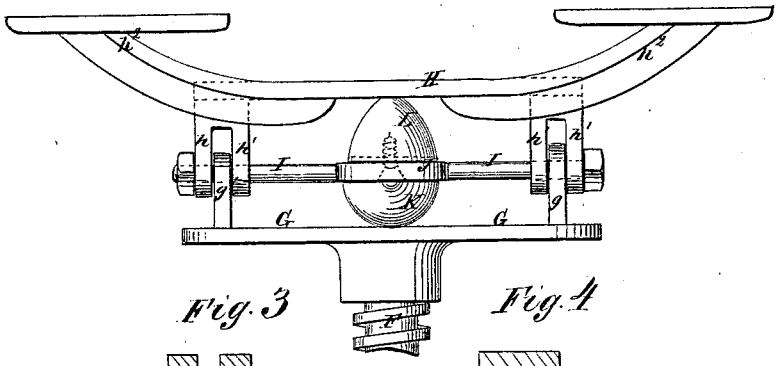


Fig. 3

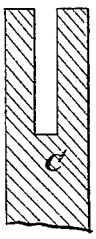
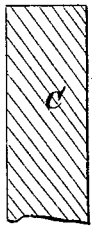


Fig. 4



WITNESSES:

A. W. Almquist

A. F. Terry

INVENTOR:

W. T. Doremus

BY

ATTORNEYS.

2 Sheets--Sheet 2.

W. T. DOREMUS.

Chair Bases.

No. 165,718. Patented July 20, 1875.

Fig. 5

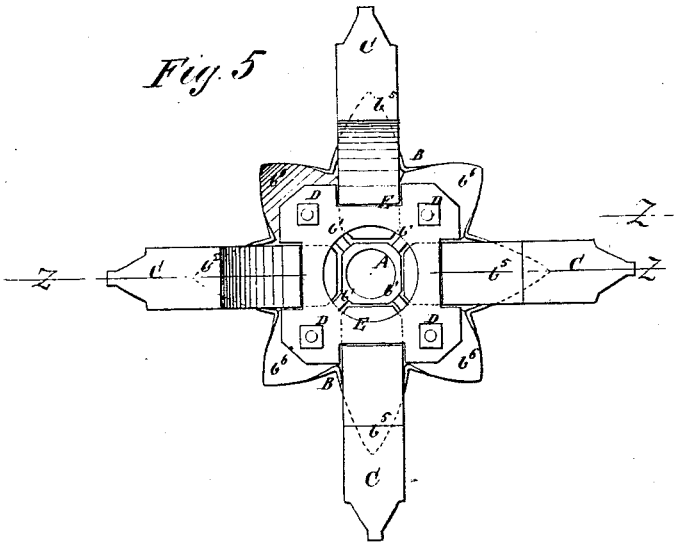


Fig. 9

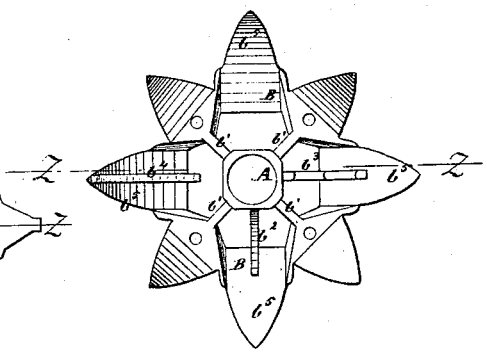


Fig. 6

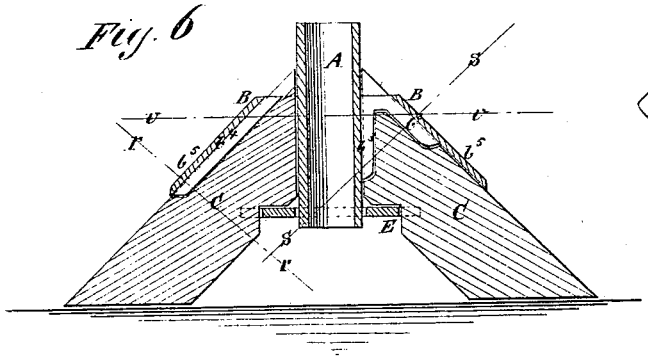


Fig. 10

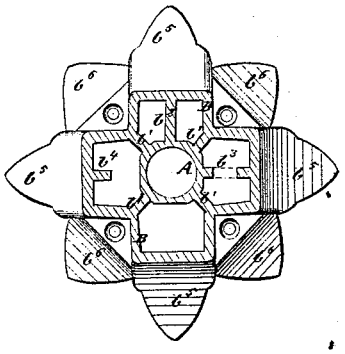


Fig. 7

Fig. 8

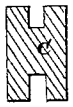
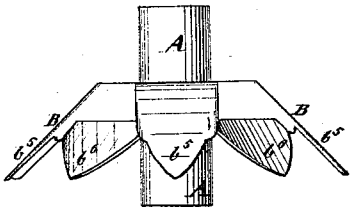


Fig. 11



WITNESSES:

A. W. Almqvist

A. F. Terry

INVENTOR:

W. T. Doremus

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM T. DOREMUS, OF NEW YORK, N. Y.

IMPROVEMENT IN CHAIR-BASES.

Specification forming part of Letters Patent No. **165,718**, dated July 20, 1875; application filed May 15, 1875.

To all whom it may concern:

Be it known that I, WILLIAM T. DOREMUS, of the city, county, and State of New York, have invented a new and useful Improvement in Chair-Base, of which the following is a specification:

Figure 1, Sheet 1, is a side view, partly in section, of my improved chair-base. Fig. 2, Sheet 1, is a rear view of the upper part of the same. Fig. 3, Sheet 1, is a detail longitudinal section of one of the legs, taken through the line *x x*, Fig. 1. Fig. 4, Sheet 1, is a detail longitudinal section of another of the legs, taken through the line *y y*, Fig. 1. Fig. 5, Sheet 2, is a bottom view of the lower part of the chair-base. Fig. 6, Sheet 2, is a vertical section of the same, taken through the line *z z*, Fig. 5. Fig. 7, Sheet 2, is a detail cross-section of one of the legs, taken through the line *r r*, Fig. 6. Fig. 8, Sheet 2, is a detail cross-section of another of the legs, taken through the line *s s*, Fig. 6. Fig. 9, Sheet 2, is a detail bottom view of the face-plate. Fig. 10, Sheet 2, is a horizontal section of the same, taken through the line *v v*, Fig. 6. Fig. 11, Sheet 2, is a detail side view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved chair-base, simple in construction, inexpensive in manufacture, strong, durable, and not liable to break or get out of order, and which shall be so constructed that it may be slipped in a "knock-down" shape, and conveniently put together by the buyer.

The invention consists in the face-plate constructed as described, and the ribs or either of them, in combination with the pivot or screw socket of a chair-base, and in the combination of the bolt, the arm, and the two rubber springs, with the lugged plates of a chair-base, as hereinafter fully described.

A is the socket for the pivot of the chair, and which, when a screw-chair is to be made, has a screw-thread cut in its inner surface to receive the threads of the screw. B is the face-plate, between which and the socket A are formed sockets to receive the legs C. The face-plate B is connected with the socket by ribs, which may be formed at the angles between the leg-sockets, as shown at b^1, or may be formed in the middle parts of the leg-sockets, as shown at b^2. In the latter case the lower middle parts of the ribs may be cut away, as shown at b^3 in Fig. 6. Or a rib, b^4, may be formed upon the inner surface of the face-plate B in the middle part of the leg-sockets, as seen in Figs. 6, 9, and 10. The parts b^5 of the plate B that project down along the outer sides of the legs C may be made in the form of leaves, or in any other ornamental form. Similar downwardly-projecting ornamental parts b^6 may be formed in the angles between the leg-sockets, which are made with horizontal shoulders, in which shoulders are formed holes to receive bolts D. The upper ends of the legs C are beveled off to fit into the leg-sockets, and are slotted or grooved to receive the ribs b^2 b^3 b^4 when said ribs are used.

By this construction the legs will be held firmly in place, even when made of narrower timber than the breadth of the leg-sockets.

E is a plate, the edges of which are notched to fit into the space between the legs C, and it has a hole formed through its center to receive the lower end of the socket A, and holes in its outer parts to receive the bolts D. The plate E and bolts D keep the legs in place when the chair is raised from the floor.

The face-plate B may be extended upward until it meets the socket A, or the upper ends of the leg-sockets may be open, as may be desired. The socket A, the face-plate B, and its ribs, are designed to be cast in one piece.

F represents the pivot or screw, upon the upper end of which is formed or to it is attached a plate, G. Upon the upper surface of the plate G, near its side edges, are formed lugs g', which are perforated to receive the bolt I, which bolt also passes through holes in the lugs h^1 formed upon the lower surface of the plate H, near its side edges, so as to hinge the said plate H to the plate G. The plate H is provided with arms h^2, to which the seat-frame of the chair is attached. To the middle part of the bolt I is attached a rearwardly-projecting arm, J, to the under side of which, at a little distance from the bolt I, is attached a rubber block, K, which rests upon the plate G. To the upper side of the rear

part of the arm J, a little in the rear of the spring K, is attached a rubber block, L, upon which the rear part of the plate H rests.

By this construction, when a person leans back in the chair, he brings into play the elasticity of the two rubber blocks K L, the arm J, and the long bolt I.

Several holes are formed in the forward part of the arm J to receive the bolt I, so that the springs K L may be adjusted nearer to or farther from the bolt I, which is the axis of motion to adjust the tension or strength of the springs to the weight of the person who will ordinarily use the chair.

M is a stop, the lower end of which is secured to the plate G, near its forward edge, and upon the upper end of which rests the forward part of the plate H. To the upper end of the stop M is attached a rubber block, N, for the plate H to rest upon, to prevent the said plate from striking dead when it comes in contact with the said stop M.

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

1. The central tubular socket A, the surrounding face-plate B, and their connecting-ribs, the plate E, and bolts for securing or supporting the same combined, substantially as shown and described.

2. The combination of the bolt I, the arm J, and the rubber springs K L, with the plates G H, provided with perforated lugs, substantially as herein shown and described.

WILLIAM T. DOREMUS.

Witnesses:

JAMES T. GRAHAM,

T. B. MOSHER.