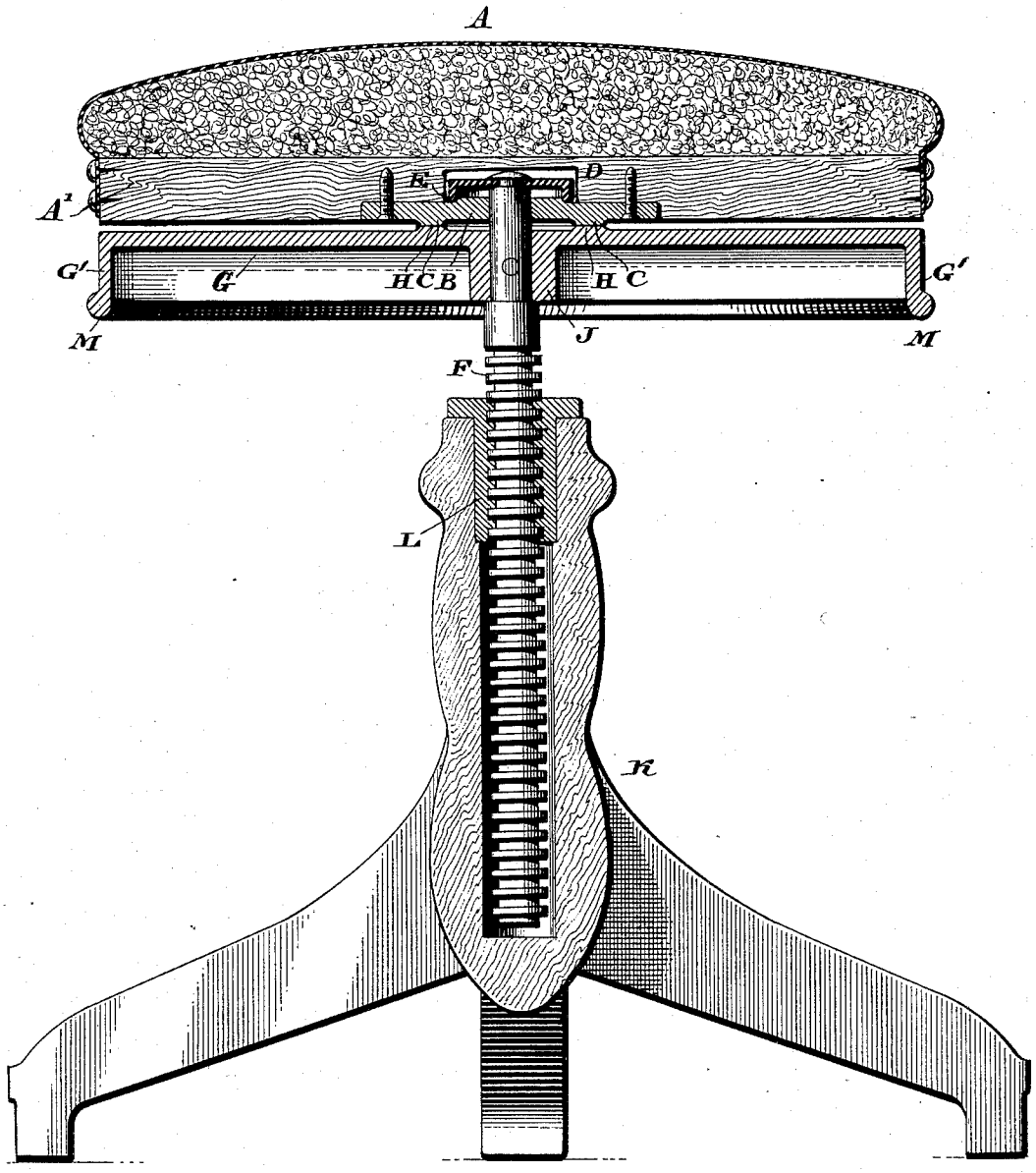
(No Model.)

P. H. FUHRMANN.

STOOL.

No. 482,553. Patented Sept. 13, 1892.



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STOOL.

SPECIFICATION forming part of Letters Patent No. 482,553, dated September 13, 1892.

Application filed December 12, 1891. Serial No. 414,816. (No model.)

To all whom it may concern:

Be it known that I, PHILIP HENRY FUHRMANN, a citizen of the United States, residing at Mahanoy City, county of Schuylkill, and State of Pennsylvania, have invented a new and useful Improvement in Stools, which improvement is fully set forth in the following specification and accompanying drawing.

My invention consists of a chair or stool provided with means for raising or lowering or adjusting the height of the seat thereof. To this end I employ a screw-stem which is fitted in the leg of the chair or stool and journaled in the frame of the seat and connected with a rotatable ring which freely contacts with said frame, whereby the adjustment may be accomplished in a convenient and easy manner, and the seat is steadied at all times.

The figure represents a vertical section of a chair or seat embodying my invention.

Referring to the drawing, A designates the seat of a chair or stool, to the under side of whose frame A′, at the center thereof, is secured a plate B, the lower face whereof is provided with a downwardly-projecting annular rib C. On the upper face of said plate B and occupying a recess in the seat-frame A′ is a rotatable cap D, whose flange or rim E rests freely upon said plate. The said cap is rigidly secured to the upper end of the screw-stem F by having a reduced end of the said stem inserted in an opening in the cap and the outer end of the stem beaten or hammered down on the cap, or the cap may be soldered or otherwise fastened to said stem, the portion of the latter below said cap passing freely through the plate B, so as to rotate therein.

Below the seat-frame is a ring G, whose upper face is formed with an upwardly-projecting annular rib H, which contacts with the rib C of the plate B, thereby furnishing a small contact-surface of the said ring and plate, and thus lessening the friction of the same. A portion of the stem F is passed through the central portion or hub J of the ring G and firmly secured thereto, so that when said ring is rotated motion is communicated to the stem.

K designates the legs or base of the chair or stool, the upright portion of the same being hollow and containing a threaded bushing or nut L in which the stem F is fitted, whereby when said steam is rotated the seat may be raised or lowered.

The operation is as follows: When the seat is to be adjusted, the ring G is rotated in the proper direction, whereby the screw is raised or lowered, the effect of which is evidently communicated to the seat, it being noticed that the occupant of the seat may readily reach the ring without leaving said seat. It will also be noticed that there is but little friction between the ring G and seat-frame, and that as the stem is guided in the plate B, and, furthermore, attached to the cap D, whose flange rests on said plate, the stem F is firmly connected with the seat-frame. In order to adapt the ring G to be conveniently operated, the same is formed with a circumferential rim G′, which may be grasped by hand.

The ring may be entirely formed of metal, which may be plated, thus presenting an attractive appearance and a finish to the under side of the seat as an apparent continuity of the same.

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

1. A seat-frame with plate secured thereto, a rotary screw-stem with cap movable on said plate, a ring secured to said stem and bearing on said plate, and a threaded standard for said stem, said parts being combined substantially as described.

2. A seat-frame having a plate secured thereto with a downwardly-projecting annular rib, a screw-stem having a cap movable on said plate, a ring secured on said stem and having a rib in contact with said rib on the plate, and an interiorly-threaded standard for said stem, said parts being combined substantially as described.

3. A seat-frame having a plate with a downwardly-projecting rib thereon, a screw-stem, and a ring secured to said stem with an upwardly-projecting rib thereon, in combination with a cap connected with the top of said stem and having a depending flange which rests freely on the plate of the seat-frame, and a threaded standard, substantially as described.

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Witnesses:
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