

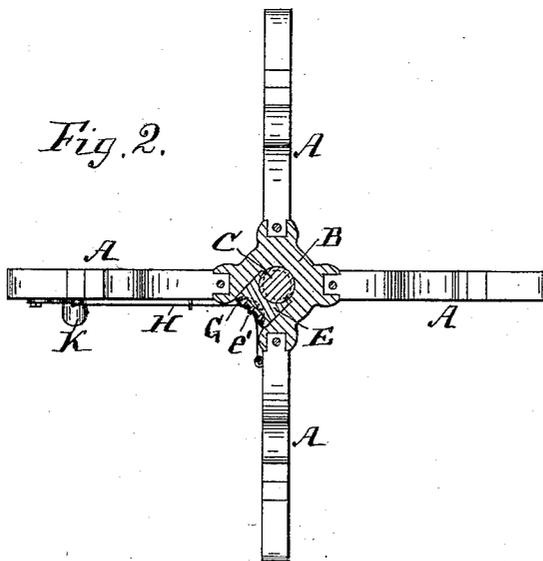
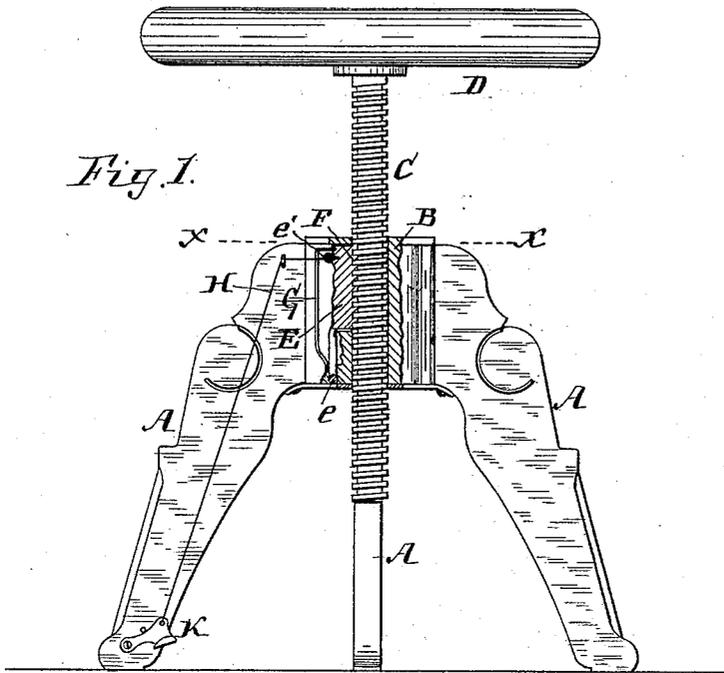
(No Model.)

L. F. SEEGER.

REVOLVING CHAIR AND STAND.

No. 395,406.

Patented Jan. 1, 1889.



Witnesses.

Walter Scott.
C. J. Bell.

Inventor

Louis F. Seeger

By his Attorney *James Lloyd*

UNITED STATES PATENT OFFICE.

LOUIS F. SEEGER, OF KEWAUNEE, WISCONSIN.

REVOLVING CHAIR AND STAND.

SPECIFICATION forming part of Letters Patent No. 395,406, dated January 1, 1889.

Application filed May 24, 1888. Serial No. 274,997. (No model.)

To all whom it may concern:

Be it known that I, LOUIS F. SEEGER, a citizen of the United States, residing at Kewaunee, in the county of Kewaunee and State of Wisconsin, have invented certain new and useful Improvements in Revolving Chairs and Stands; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to revolving stools and chairs in which provision is made for rapid vertical adjustment; and the object of my improvement is to afford means whereby the seat can be quickly and easily raised or lowered through a considerable distance, when desired, while adjustments within a small compass can be readily made in the ordinary way by means of the screw-spindle. I attain this object by providing means whereby the threads of a sectional nut with which the screw-threaded spindle of the revolving stool or chair engages can be retracted free from engagement with the screw-threads of the spindle, thereby permitting the spindle to be freely raised or lowered any distance, and when the retracting mechanism is released the nut-threads immediately mesh with the threads of the spindle-screws. The seat can then be revolved or screwed up and down in the usual way. For convenience the operating mechanism is so disposed that it can be actuated by a foot-piece on one of the legs or the base of a chair or stool.

In the accompanying drawings, Figure 1 is a side elevation, partly in section, of a stool embodying my invention; and Fig. 2 is a horizontal section taken on the line *x x*.

It will be readily understood that the invention is applicable to piano-stools, revolving chairs and stools, tables, book-supports, music-stands, and all articles of a like nature in which the height of the seat, stand, or rack can be varied or adjusted by means of a screw-threaded standard supporting it.

The present invention avoids the labor and delay incident to the numerous revolutions

required when an adjustment through a considerable distance is desired.

A A are the legs of a stool, and B the socket-casting, into which the legs A are framed and fastened, and through which the square-threaded screw C, carrying the seat D, passes. The hole through this casting B for the spindle is smooth-bored, and it forms a guide or bearing for the spindle, in which it can freely turn and slide. The casting B is cut out on one side near the upper part to permit the face of the hinged block E to project through into the central spindle-hole. The block E extends downward on the outside of the casting B and is hinged to it at *e*.

The face of the block E is turned to the curvature of the spindle C, and it has square screw-grooves F, conforming to the square screw-threads of the spindle. A spring, G, bears against the back of the hinged block E and presses it in against the spindle and holds the screw-grooves of the block in mesh with the screw-threads of the spindle.

On the back of the block E there is an eye, *e'*, through which runs a cord, H, attached at one end to the frame or a leg of the stool and at the other to a foot-lever, K, near the bottom of one of the legs of the stool.

The operation of the device is as follows: When it is desired to raise or lower the seat a considerable distance, the foot-piece K is pressed down with the foot. This, through the medium of the cord H, draws back the hinged block E out of mesh with the screw-threads of the spindle, and the seat can then be freely raised or lowered by hand to the point desired. On releasing the foot-piece the screw-threads of the hinged block re-engage with the threads of the spindle. In this position the seat can be revolved or screwed up and down in the usual way.

Instead of making the screw-threaded block E a hinged block, it could be a spring-pressed block sliding in horizontal grooves; but I prefer to construct it as shown, for the reason that, being pivoted at the bottom and at a point back of the line of engagement of the teeth, it acts in connection with the threads of the spindle like a pawl and ratchet. The seat can be raised by simply lifting it to any point desired without touching the foot-lever,

for when an upward pull is given to the screw-spindle the hinged block E yields and is pushed back, permitting the threads of the spindle to slip by the screw-grooves of the block, but when a downward pressure is exerted on the screw-spindle the threads remain in mesh.

Instead of the cord device employed to retract the hinged block, it will be understood that a wire, rod, or other means for connecting the foot-piece to the threaded block can be employed. For example, a wire extending from a rearward-projecting arm on the block E to the foot-piece would effect the same result.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a revolving seat or support, of a screw-threaded spindle secured thereto, a stand provided with a smooth-bored hole for said spindle to slide in vertically, and a retractible sectional block or nut provided with screw-threads engaging with said screw-

threaded spindle and supported in the said stand, substantially as and for the purposes set forth.

2. The combination, with a revolving seat or support, of a screw-threaded spindle secured thereto, a stand provided with a smooth-bored hole for said spindle to slide in vertically, a sectional block or nut pivoted at its lower end to the stand and provided with screw-threads engaging with the said screw-threaded spindle, a spring pressing the nut into gear with the spindle, and a sliding foot-piece supported by the stand and connected to the said sectional nut, whereby it may be retracted out of gear with the spindle, substantially as and for the purposes set forth.

In testimony whereof I affix my signature in presence of two witnesses.

LOUIS F. SEEGER.

Witnesses:

GEO. W. WING,
R. L. WING.