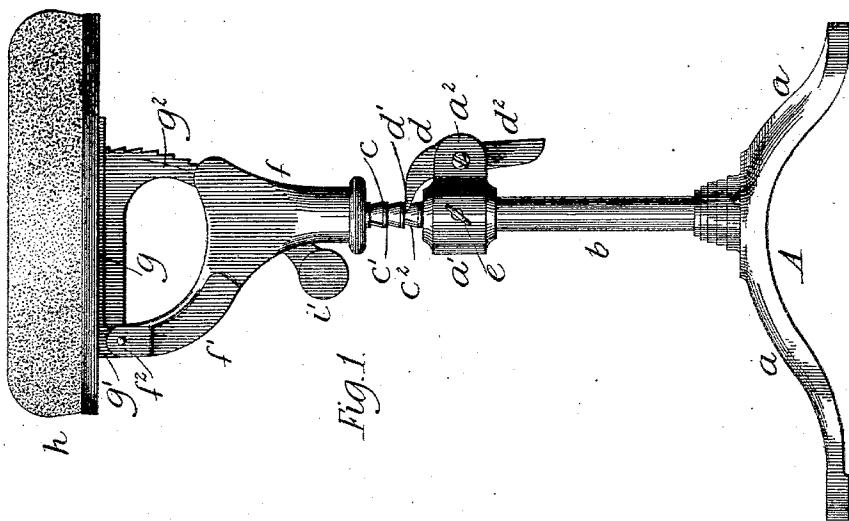
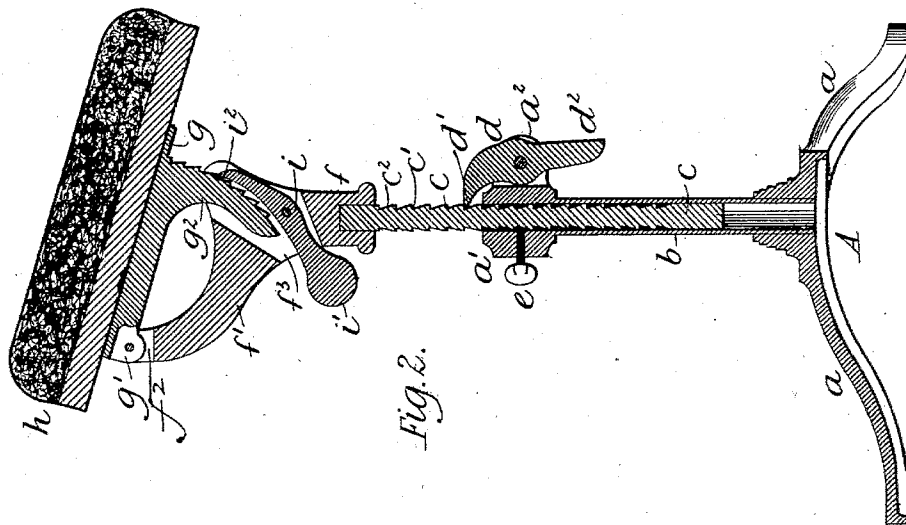


(No Model.)

S. FUERSTENBERG.
STOOL.

No. 561,880.

Patented June 9, 1896.



Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL FUERSTENBERG, OF NEW YORK, N. Y.

STOOL.

SPECIFICATION forming part of Letters Patent No. 561,880, dated June 9, 1896.

Application filed March 4, 1896. Serial No. 581,747. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL FUERSTENBERG, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Stools; and I do 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 the letters of reference marked thereon, which form a part of this specification.

This invention is directed to improvements in that class of stools in which the seat is capable of revolution, and has for its objects the provision of improved means by which the seat is capable of being adjusted to and held at any desired height with relation to the floor or other support; also, the provision of improved means whereby the seat may be caused to assume and maintain a horizontal position or an inclination from the horizontal to any desired degree.

My improved stool, while being susceptible of general utilization, is especially designed for employment in connection with dental and other operations, the stool furnishing an efficient and comfortable support for the operator, and in consequence reducing to a material degree the amount of labor and physical exertion attendant upon conducting the work in hand while in a standing position.

The nature of my invention will be fully apparent by reference to the following description, when taken in connection with the accompanying drawings, in which—

Figure 1 is a side elevation of my improved stool. Fig. 2 is a vertical central sectional view with the seat raised and in a tilted position.

In the said drawings, A denotes the base, which, as shown, consists of a number of legs a , radially disposed, and from which extends a vertical standard b , apertured throughout its length and within which aperture the seat-spindle c is movably arranged. At the upper end of the standard is a collar a' , which is secured thereto or formed integrally therewith, as desired, and from this collar extend two ears a^2 , between which is pivotally se-

cured a pawl d , having an engaging end d' and a handle d^2 . The spindle c is stepped at equidistant points, annular shoulders c' being provided, which are engaged by the end d' of the pawl, and between these shoulders, as at c^2 , the spindle is tapered, by which arrangement the pawl is automatically disengaged as the spindle is raised. The engaging end d' of the pawl conforms to the spindle at the shouldered portions and is offset from the pivotal point, whereby said end d' is acted upon by gravity to maintain its engagement with the spindle. The handle end d^2 of the pawl serves as a convenient means for disengaging the end d' when it is desired to lower the seat. Inasmuch as the raising of the seat is accomplished by the act of lifting the same, I provide a locking-screw e , which is passed through the collar a' , and when turned sufficiently engages a tapered portion of the spindle and enables the stool to be raised bodily without changing the adjustment. The peculiar construction of spindle and the action of the pawl and screw e thereon enables the seat to be freely revolved at any point of its vertical adjustment, as will be understood.

Secured to the upper end of the spindle is a seat-support f , which is recessed at its lower end to receive the spindle and is provided at one side with an integral arm f' , terminating in a bifurcation f^2 , in which latter is pivotally secured two ears g' , depending from one end of a plate g , secured to the under side of the seat h . From the other end of the plate g extends a curved ratchet-toothed bar g^2 , the lower end of which is movable within a slot f^3 in the support f , and this bar is engaged by a pawl i , pivotally secured within said slot, the outer end i' of the pawl being weighted to insure the engagement, and this end serves also as a handle by which the pawl may be disengaged from the bar at will. The bar is so curved as that its outer toothed side is always in the path of the engaging end i' of the pawl, by which arrangement the seat may be caused to assume and to maintain a horizontal or inclined position.

The means just described by which the seat may be tilted contribute a very important feature to the invention, as the same enable the stool to be adjusted to secure comfort to the operator when his body is inclined

in a forward direction, this position being usually maintained for a prolonged length of time, especially in dental operations. This tilting or inclination of the seat is permitted to any desired degree and is controlled readily by the operator, and when so adjusted the seat in this position may be revolved readily, and, moreover, may be raised or lowered to any extent, dependent upon the height desired.

The operation of my invention involves few and very simple acts. The seat is raised by the act of lifting and is lowered by moving the pawl. The seat is tilted by moving the other pawl and allowing the seat to assume the desired angle, and in lessening the angle as well as in increasing the height of the stool the locking is automatically accomplished by the gravity-pawls. The seat is suitably upholstered and covered, and may be of any character or shape desired.

My improved stool is simple in construction, strong and durable, and not liable to

disorder. It is efficient in operation, contributes ease and comfort to the occupant, and may be produced at comparatively small cost.

I claim as my invention—

A revolving stool comprising a base and an apertured standard, a stepped seat-spindle movable within the standard, a gravity-pawl pivotally secured on the upper end of the standard and adapted to engage any one of the spindle-steps, a seat-support secured to the spindle and provided with a slot, a gravity-pawl pivotally secured to the support, and a curved ratchet-toothed bar depending from the seat and movable within the slot and adapted to be engaged by the pawl in the manner and for the purpose substantially as described.

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

SAMUEL FUERSTENBERG.

Witnesses:

EDWARD BRADLEY,
JOHN J. GLYNN.