

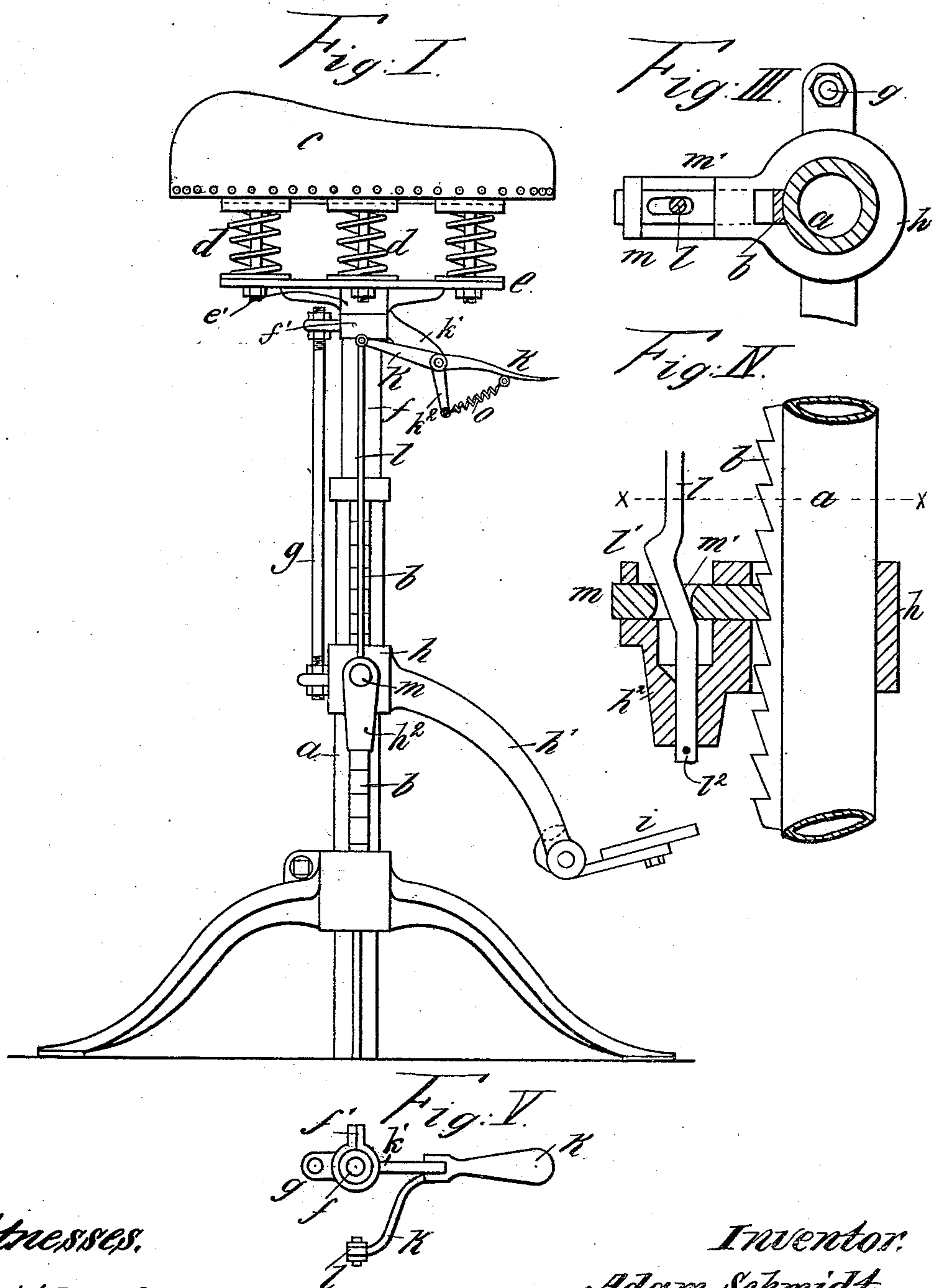
(No Model.)

2 Sheets—Sheet 1.

A. SCHMIDT.
ADJUSTABLE SEAT.

No. 507,044.

Patented Oct. 17, 1893.



Witnesses.

J. H. Daly.
Wm. C. Smith.

Inventor.

Adam Schmidt.

By

James L. Norris.

Atty.

(No Model.)

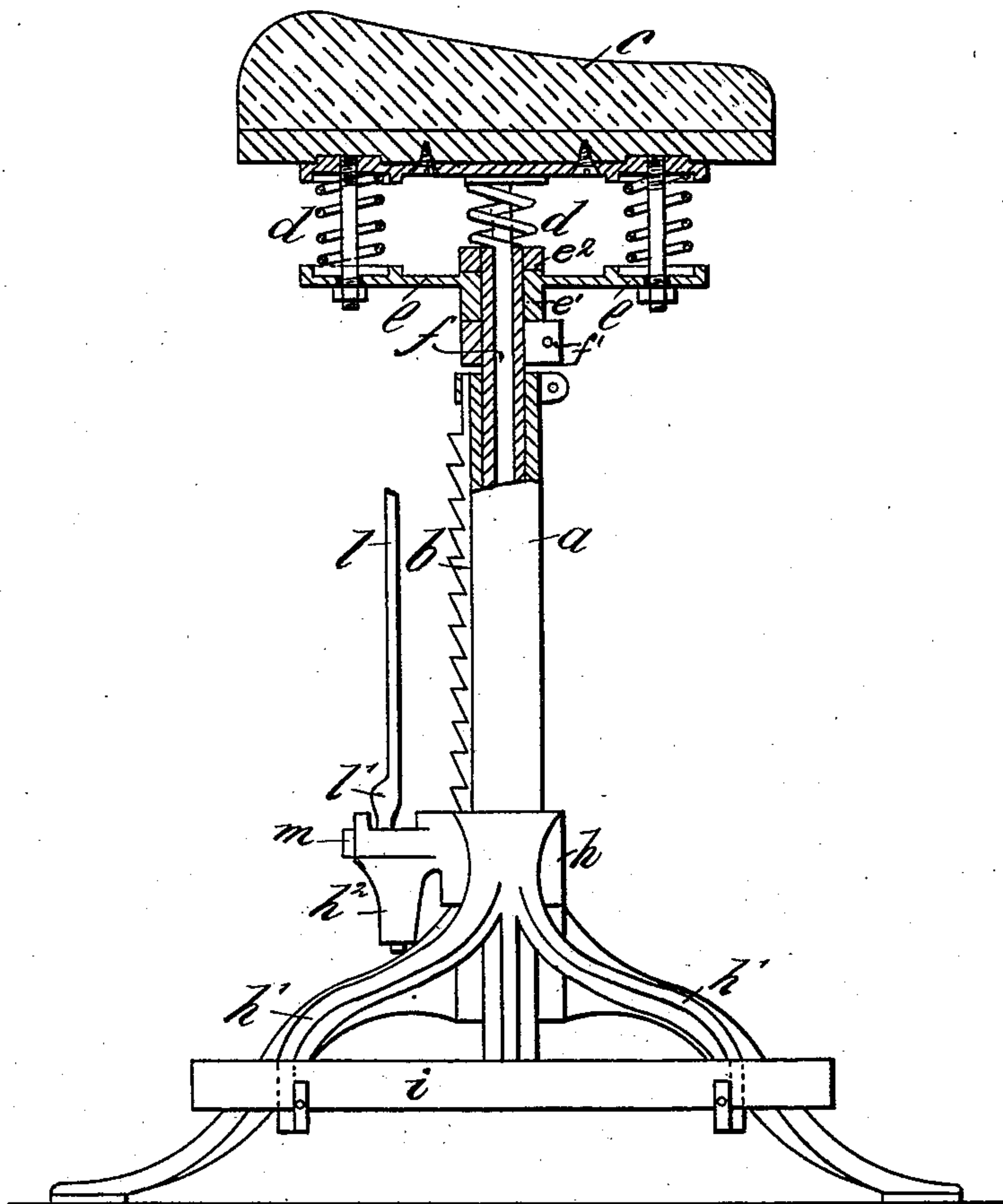
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Patented Oct. 17, 1893.

Fig. II.



Witnesses:

J. H. Daly

Wm. C. Everett

Inventor:

Adam Schmidt.

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James L. Norris.

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UNITED STATES PATENT OFFICE.

ADAM SCHMIDT, OF SAALFELD-ON-THE-SAALE, GERMANY.

ADJUSTABLE SEAT.

SPECIFICATION forming part of Letters Patent No. 507,044, dated October 17, 1893.

Application filed February 24, 1892. Serial No. 422,718. (No model.) Patented in England February 24, 1892, No. 1,587.

To all whom it may concern:

Be it known that I, ADAM SCHMIDT, a subject of the Emperor of Germany, residing at Saalfeld-on-the-Saale, in the Duchy of Saxe-Meiningen, German Empire, have invented new and useful Improvements in Adjustable Stools or Seats, (for which I have obtained a patent in Great Britain, No. 1,587, dated February 24, 1892,) of which the following is a specification.

My invention relates to a vertically adjustable revolving seat or stool suitable for use at store counters or at desks or tables or for other purposes; and the invention consists in the peculiarities of construction and novel combinations of devices as hereinafter described and claimed.

In the annexed drawings—Figure I is a side elevation of an adjustable stool or seat embodying my invention. Fig. II is a front elevation of the same, partly in section, and showing the seat revolved to one side. Fig. III is a horizontal section on the line xx of Fig. IV showing the tubular standard and attached pawl and ratchet mechanism. Fig. IV is an enlarged partly sectional elevation of a portion of the adjusting mechanism on the tubular standard. Fig. V is a plan of the lever and its connections for operating the adjusting mechanism.

Referring to the drawings, the letter a designates a tubular standard that may be supported at its lower end on a tripod or in any other suitable manner. A vertical rack b is secured to one side of this standard a , as shown.

The seat c is supported by springs d carried on a horizontal plate e attached to a vertical guide rod f that is adapted to slide up and down in the main tubular standard. A collar f' is loosely mounted on the upper portion of the guide rod f immediately below a hub e' on the plate e and is connected by a vertical rod g to a vertically movable sleeve h mounted on the tubular standard. A nut or collar e^2 on the upper end of the rod f above the plate e holds said plate in position on the rod. The sleeve h is provided with diverging downwardly curved arms h' having a foot rest i attached to their lower ends. On one side of the sleeve h is a vertical socket h^2 in which is loosely attached the lower end of a

vertically extended rod l the upper end of which is connected to a lever k fulcrumed upon an arm k' of the collar f' and held in position by a spring o one end of which is attached to an extension k^2 of the arm k' while the other end is connected to said lever. The sleeve h supports a horizontally movable pawl or sliding dog m having an opening or slot m' through which the rod l is extended. The pawl m automatically engages the rack b and thus supports the seat c at any elevation to which it may be adjusted. When it is desired to lower the seat the lever k is pressed or drawn upward thereby lowering the rod l so as to cause a tooth or projection l' thereon to press downward in the slot m' and thereby retract the pawl m from the rack b and permit the seat to descend by gravity. It will be seen that the lever k is within reach of a person seated on the stool so that he can lower the seat while seated thereon. The foot board or step i being supported by the arms h' of the vertically movable sleeve h which is connected to the collar f' by the rod g it is obvious that the distance between the foot rest and the seat will remain constant however the seat is adjusted, thus affording a firm support for the feet.

In order to raise the seat it is only necessary to lift the outer end of the lever k so as to push the rod l down to disengage the pawl m from the rack b and then push the seat frame and connected parts upward, during which upward movement the pawl m will ride on the rack b and will automatically click into engagement therewith again so as to support the seat firmly when its upward movement is discontinued. The lower end of the rod l is provided with a pin l^2 by which the sleeve h and pawl m are lifted when the seat frame is raised or pushed upward.

The hub e' of the plate e is supported on and rotatable upon the loose collar f' of the guide rod f and thus permits a turning or revolving of the seat to either side, as required.

What I claim as my invention is—

1. In an adjustable seat, the combination of a tubular standard having a vertical rack on its outside, a vertically movable sleeve mounted on said standard, a horizontally movable pawl supported by said sleeve and adapted to engage the rack, a seat having a

depending vertical guide rod adapted to slide vertically within the tubular standard, a collar loosely mounted on the guide rod immediately below the seat, a rod connecting said collar with the vertically movable sleeve, and lever mechanism mounted below the seat and connected with the pawl to disengage it from the rack and lower the seat, substantially as described.

10 2. In an adjustable seat, the combination of a tubular standard having a vertical rack on its outside, a revolving vertically movable seat having a depending guide rod adapted to have a rotary and vertically sliding movement within the tubular standard, a collar

15 loosely mounted on said guide rod, a verti-

cally sliding sleeve mounted on the tubular standard, a rod connecting said collar and sleeve, a slotted horizontally movable pawl mounted in the sleeve and adapted to engage the rack, a vertically extended rod loosely engaged in the slotted pawl and provided with a projection l' , and a lever connected with the upper end of said rod to operate the pawl, substantially as described.

20 25

In testimony whereof I have hereunto set my hand and affixed my seal in presence of two subscribing witnesses.

ADAM SCHMIDT. [L. S.]

Witnesses:

E. E. HILL,
C. MÜLLER.