

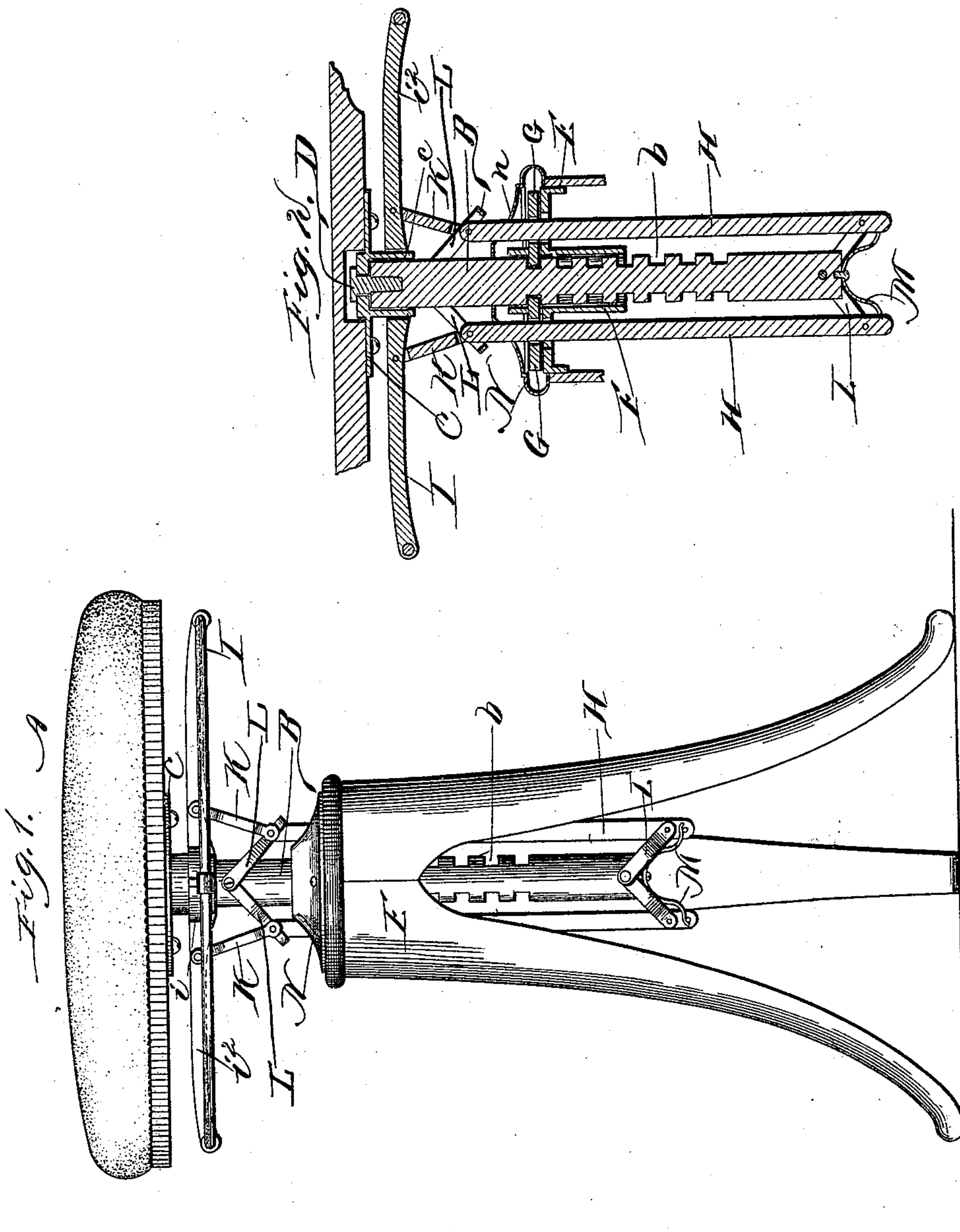
(No Model.)

2 Sheets—Sheet 1.

P. A. BREDSVOLD.
ADJUSTABLE STOOL.

No. 516,183.

Patented Mar. 13, 1894.



Witnesses
W. H. Middleton
Geo. P. Woodward

Inventor
Paul A. Bredsvold
By Chas. G. Page
Atty

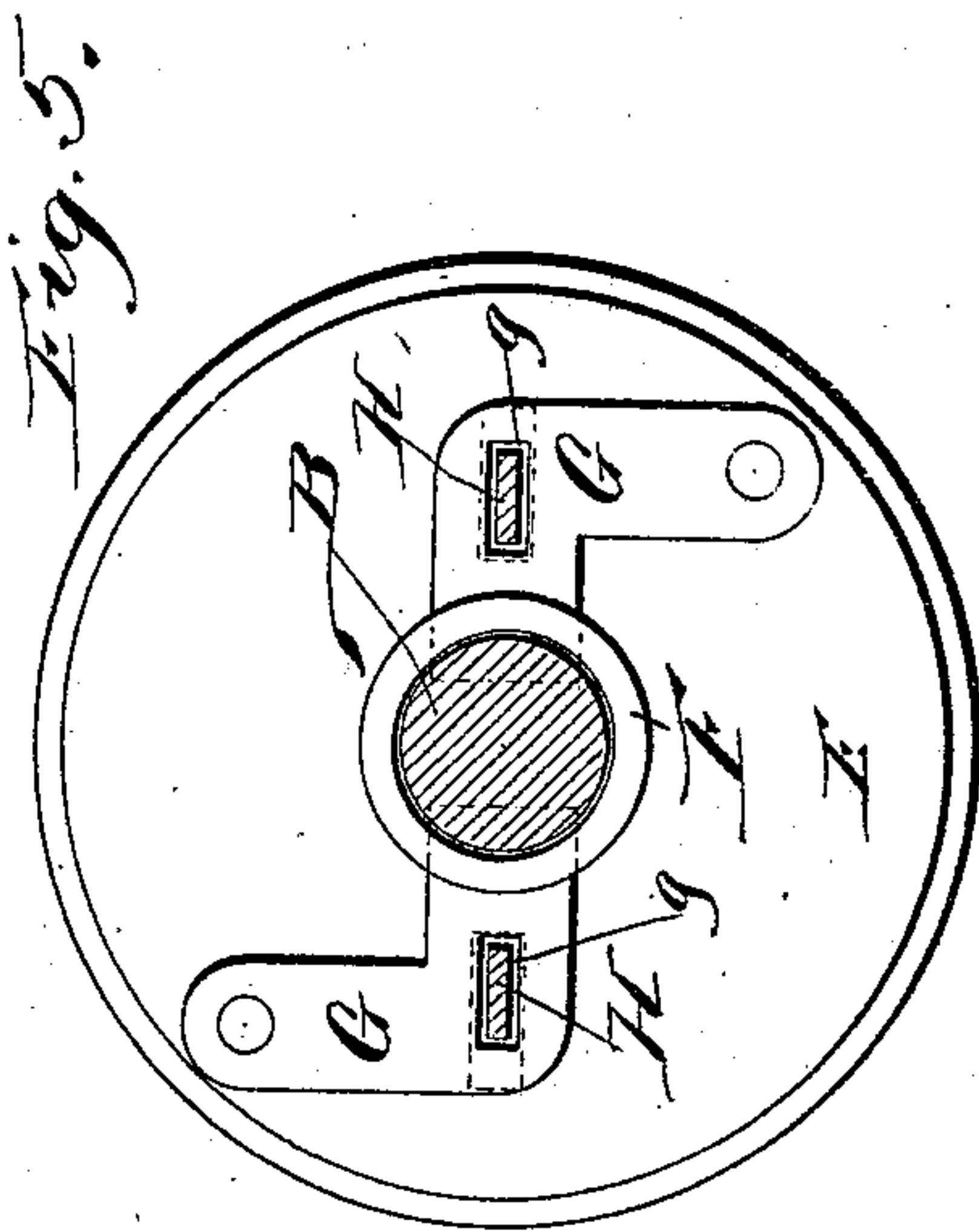
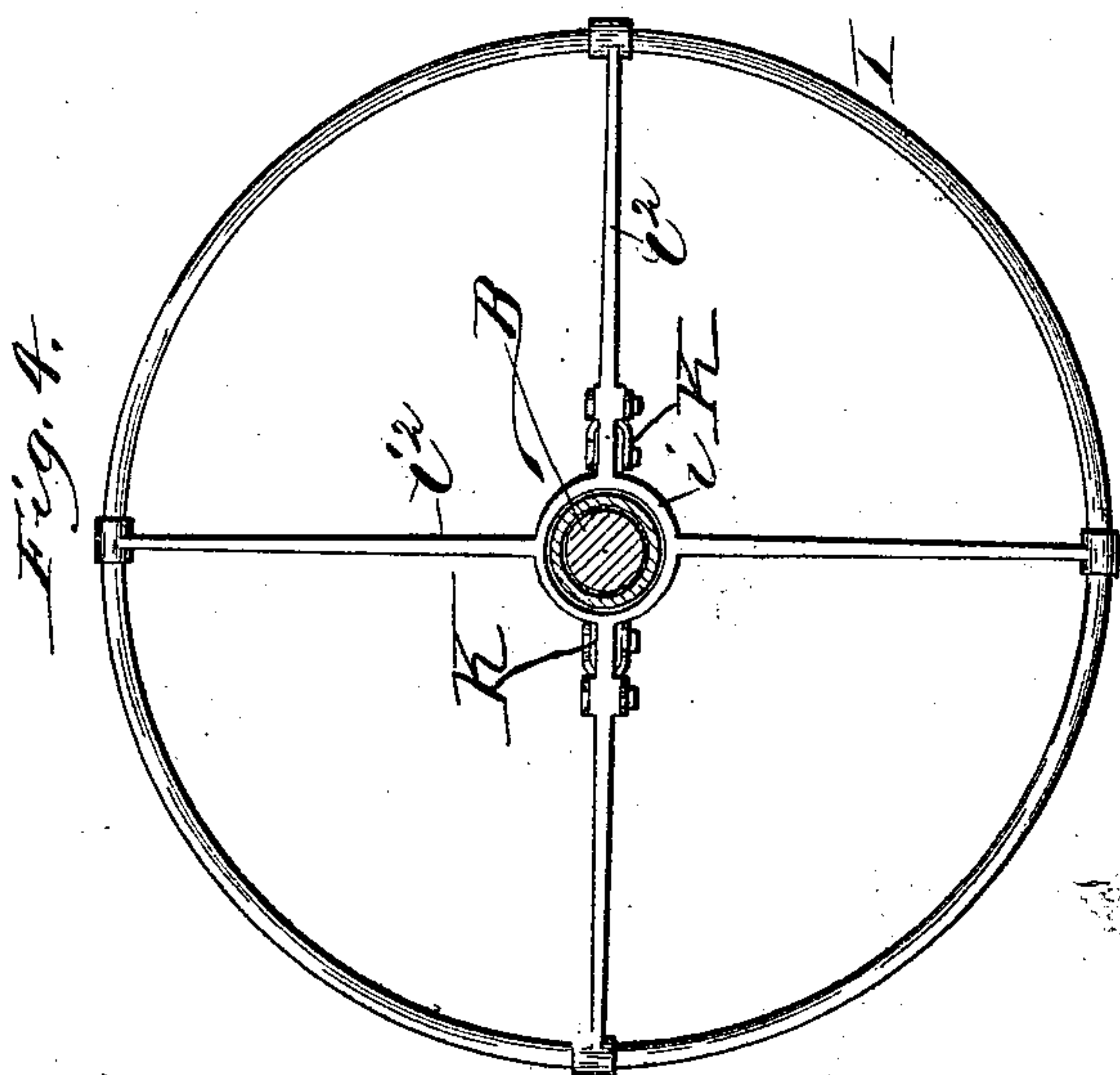
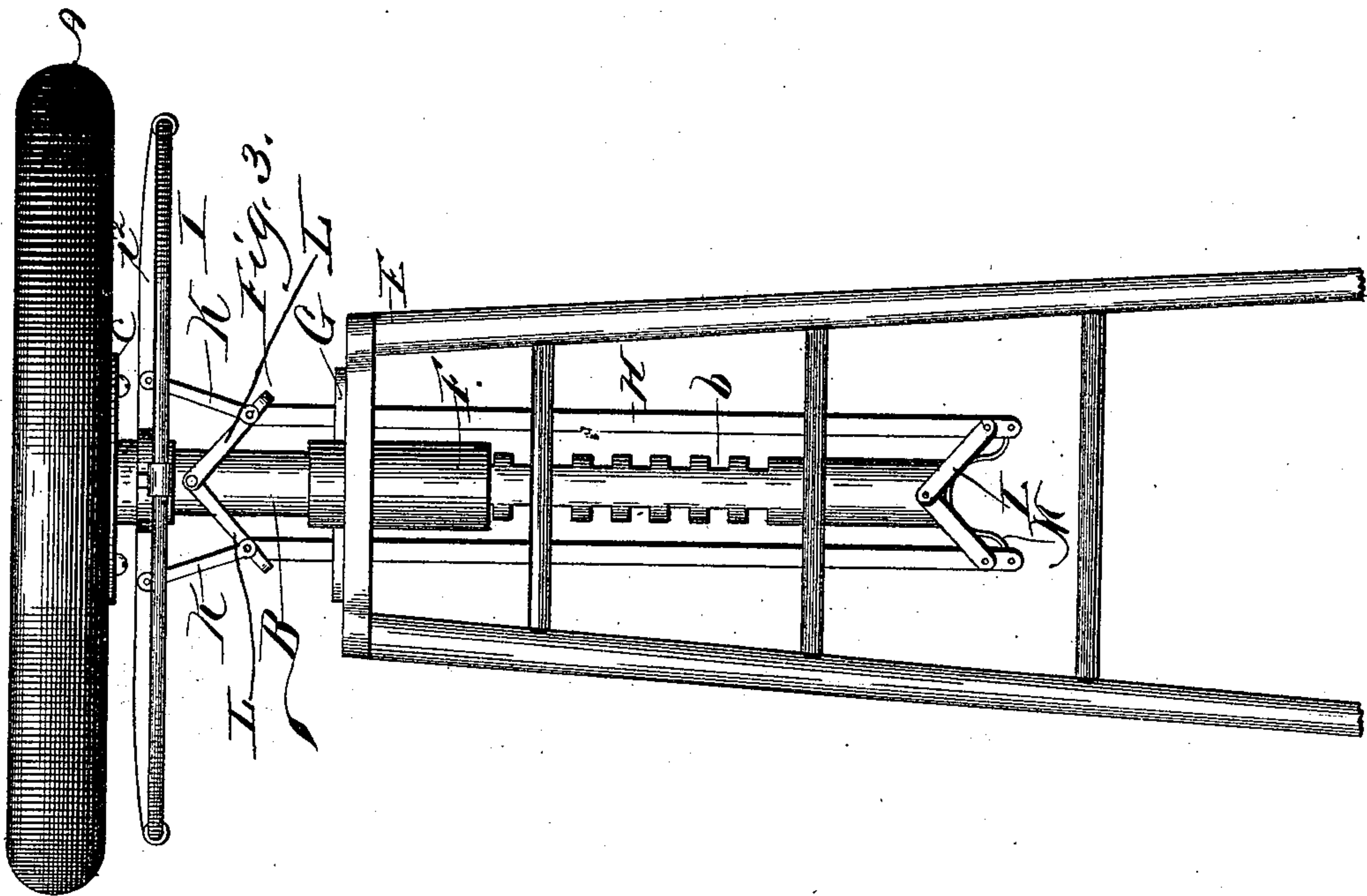
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UNITED STATES PATENT OFFICE.

PAUL A. BREDSVOLD, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO
LOUIS H. BOURRET, OF SAME PLACE.

ADJUSTABLE STOOL.

SPECIFICATION forming part of Letters Patent No. 516,183, dated March 13, 1894.

Application filed August 17, 1893. Serial No. 483,316. (No model.)

To all whom it may concern:

Be it known that I, PAUL A. BREDSVOLD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Adjustable Stools and Chairs, of which the following is a specification.

In a stool or chair characterized by my invention, the seat is supported upon a centrally arranged vertically adjustable standard which is in turn arranged to rise from and drop within a suitable base-support. The base support is provided with dogs or latches for engaging and locking the standard, and as a means for positively operating the dogs or latches I provide for each latch, a latch-operating device which is arranged to be raised and lowered with the standard so that regardless of the height to which the seat may be raised it can be conveniently reached and operated. The latch-operating devices each consist of a rod link-connected at both ends with the seat supporting standard and having a sliding connection with one of the latches, by which arrangement each rod can have one link arranged below and the other above a guide-bearing with which the base-support is provided for the seat-supporting standard, and hence the rods can be raised and lowered with said standard, and at the same time have a lateral movement when it is desired to operate them for the purpose of moving the latches. These latch-operating rods are actuated by a lifter arranged under the seat and connected with the latch operating devices by jointed connections, and the latch operating devices which have sliding connections with the latches, as aforesaid are attached to the standard by jointed connections, the arrangement being such that when the lifter is raised toward the seat, the latch operating devices will be actuated in a way to release the latches from the standard and permit the seat, the standard, the lifter, and the latch operating devices to be raised and lowered as a whole. When the lifter released is allowed to drop independently of the seat and standard, the latch operating devices will act to throw the latches in engagement with the standard and thereby lock the same.

Prominent objects of the foregoing are to

provide a simple, compact, neat and efficient construction, and to avoid a multiplicity of operative parts. Also, to insure the positive locking of the seat at any desired height, and to permit the seat to be readily locked and unlocked and raised.

In the accompanying drawings,—Figure 1 represents in elevation, a stool embodying my invention. Fig. 2 is a vertical central section through the seat, the standard, and means for locking the standard. Fig. 3 is a view similar to Fig. 1 but showing a different form of base support. Fig. 4 is a cross section through the standard at a point just above the lifter so as to show the latter in top plan. Fig. 5 is a cross-section through the standard at a point just above the latches so as to show the latter in top plan.

The seat A is shown particularly adapted for a piano stool, but it may as a matter of course be adapted for a chair and if desired it can in such case be arranged to tilt upon the standard B in any ordinary or suitable way. When used as a stool, the seat can be swiveled directly upon the standard, the swivel shown being formed by a plate C secured to the center of the seat and provided with a socket *c* to receive the upper end of the standard, which latter is connected with the said plate by a pivot D. The standard is provided with notches *b* and is arranged to pass centrally through the top of a base support E which may be of any desired construction.

In order to properly guide and effectively steady the standard, the base-support is provided with a bearing F through which the standard is arranged to work, the said bearing being made of a length sufficient to steady the standard. The dogs or latches G are supported by the base-support and are arranged so that they can engage in the notches in the standard respectively at opposite sides of the latter.

The latch-operating devices comprise a couple of rods H which have sliding connections with the latches and which are connected with the lifter I by jointed connections, such as links K, which connect the upper ends of the rods with the lifter. The rods are also connected with the standard by jointed

connections such as links L arranged to connect the upper and lower ends of the rods with the standards.

The lifter consists of a plate or ring arranged under the seat and provided with a central hub or opening for the standard, the preferred arrangement being to extend the neck or socket *c* of plate C within such hub or opening, in which case the said neck or socket provides a bearing upon which the lifter can slide up and down to an extent suitable for operating the rods. The lifter can consist of a ring plate of any suitable construction, it being preferred however for the sake of lightness and appearance to construct it of a ring having a centrally arranged neck or hub *i* and radial arms *i*² to which the links K can be attached.

When it is desired to raise the seat, the operator will first raise the lifter which through the medium of links K will raise the rods and in so doing, the rods will be compelled by the links E to move laterally away from the standard. This movement on the part of the rods in directions away from the standard, causes the latches which are engaged by the rods to move away from and release the standard, and thereupon the operator can raise the seat and standard to the desired height, observing that while so doing the lifter should be kept up to the seat so as to keep the latches clear of the standard. Upon releasing the lifter, it will drop together with the rods so as to again throw the latches in engagement with the standard, and while such action will be induced by gravity, I prefer insuring the same by a spring M attached to the standard and arranged to engage the rods. By raising the lifter toward the seat, so as to unlock the standard as hereinbefore described, the seat and standard can also be lowered to any desired extent. The dogs or latches are desirably pivoted to the top of the base support as in Fig. 5, although they could obviously be simply sliding dogs or latches. The rods can extend through openings *g* in the latches or can have any analogous sliding connection with the same. During the up and down movements of the seat and standard, the rods slide through the latches which latter are arranged opposite openings in the hub or bearing F so that when they are moved toward the standard they can work through such openings and engage the standard.

The extent of up and down movement on the part of the seat can be determined by the length of rods and standard, it being observed that the links L and K are in pairs, one pair, being above and the other pair below the bearing F for the standard.

The lifter I is desirably arranged in comparative close proximity to the seat so that in order to raise the latter, the operator while

grasping the seat for such purpose can also take hold of the lifter and draw the same toward the seat for the purpose of operating the latching device in a way to unlock the standard, and without releasing the seat and lifter raise and lower the seat to the desired extent. The standard could be locked by one latch arranged subject to one latch operating device connected with the standard and any suitable lifter by links substantially as set forth, I provide a steadier action by duplicating such means as illustrated.

The latches are desirably arranged and concealed within the base-support and to such end are covered by a cap-plate N having slots *n* through which the rods can work.

What I claim as my invention is—

1. The combination of the seat, the base-support provided with a latch, the centrally arranged, vertically movable seat-supporting standard provided with a series of notches and arranged to work through a bearing on the base-support, and a rod, link-connected at each end with the vertically movable standard and having a sliding connection with the latch, substantially as described.

2. The combination of the seat, the base-support provided with a latch, the vertically movable seat supporting standard provided with a series of notches, and a rod link-connected with the vertically movable seat-support and having a sliding connection with the latch, and a lifter I arranged for up and down movement upon the seat supporting standard independently of the same and link-connected with said rod, substantially as described.

3. The combination of the base-support having a centrally arranged guide-bearing for the seat-supporting standard and provided with a cap N having a slot *n*, the seat, the seat-supporting standard arranged for vertical movement through said guide-bearing, a latch for engaging and releasing the seat-supporting standard supported by the base-support and covered by the cap thereon, and a rod link-connected with the seat-supporting standard and having a sliding connection with the latch, said rod being extended through the slot in the cap, substantially as described.

4. The combination with the seat standard notched at opposite sides, the seat and base support, the latter affording a bearing for the movable latches of the oppositely arranged latches, the rods having sliding connections with the latches and link-connected with the standard, and the lifter arranged under the seat and link-connected with the rods, substantially as described.

PAUL A. BREDSVOLD.

Witnesses:

W. D. MIDDLETON,
CHAS. G. PAGE.