

No. 612,089.

Patented Oct. 11, 1898.

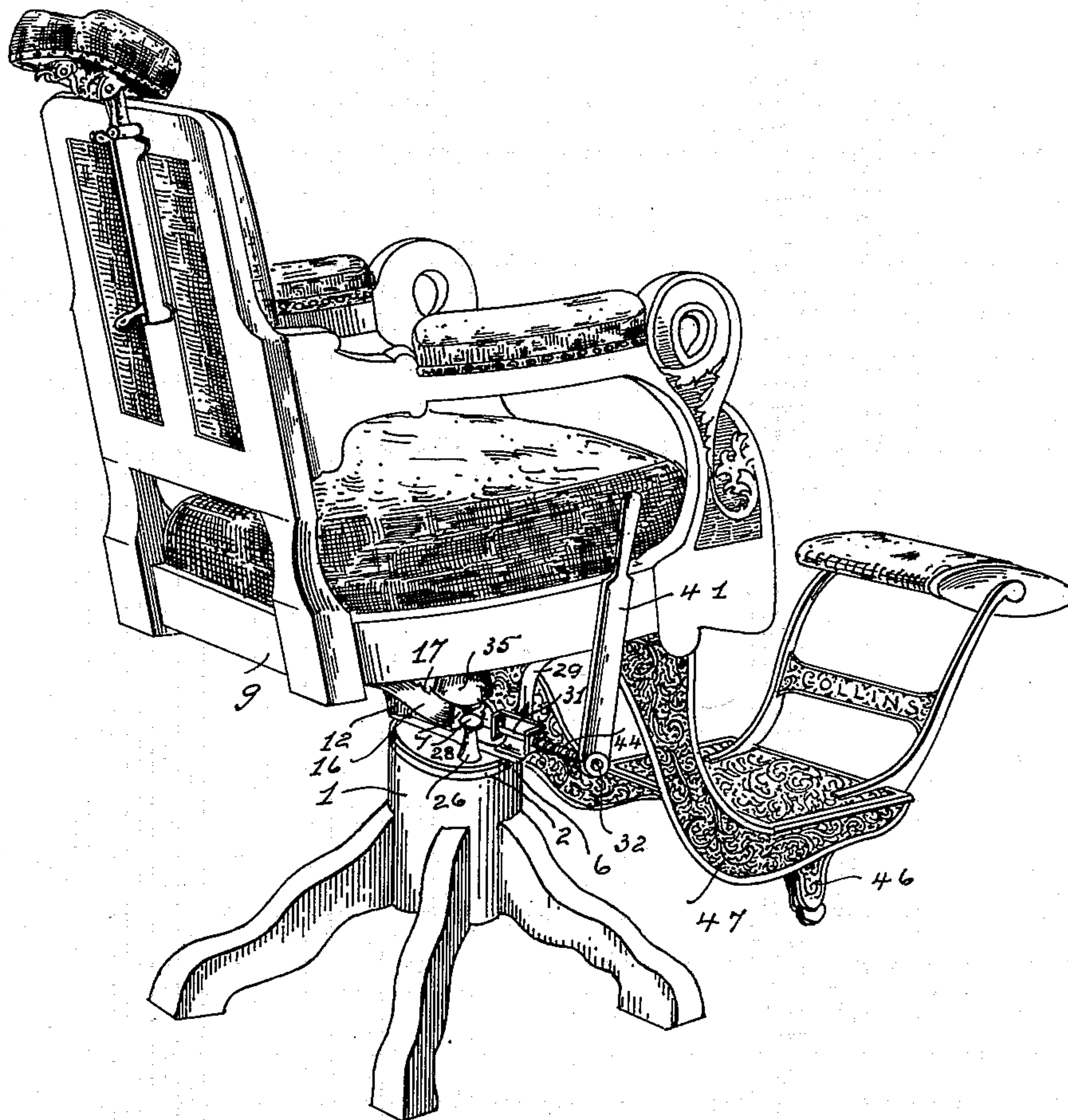
T. J. COLLINS.  
BARBER'S CHAIR.

(Application filed Dec. 21, 1897.)

(No Model.)

3 Sheets—Sheet 1.

FIG. 1.



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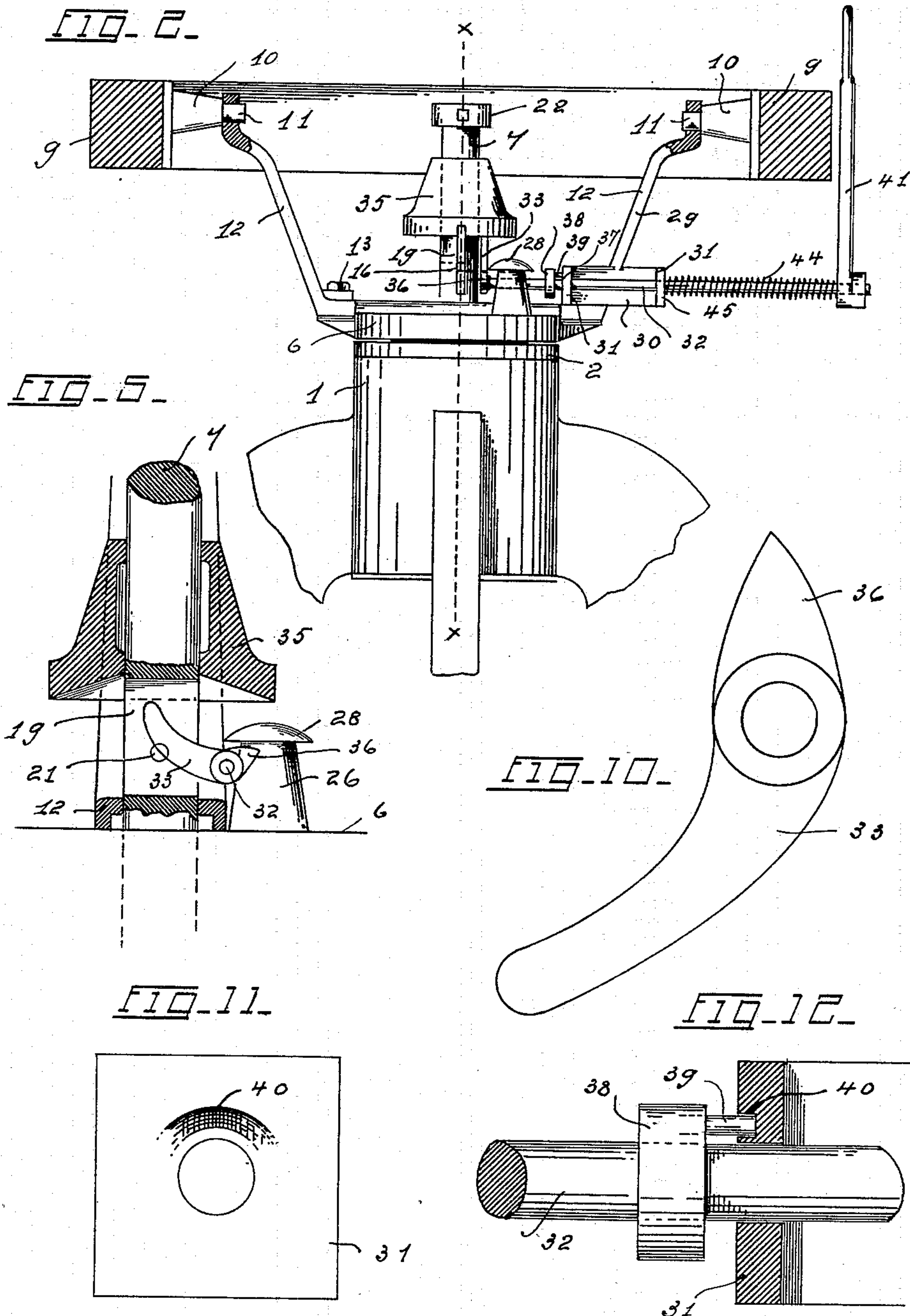
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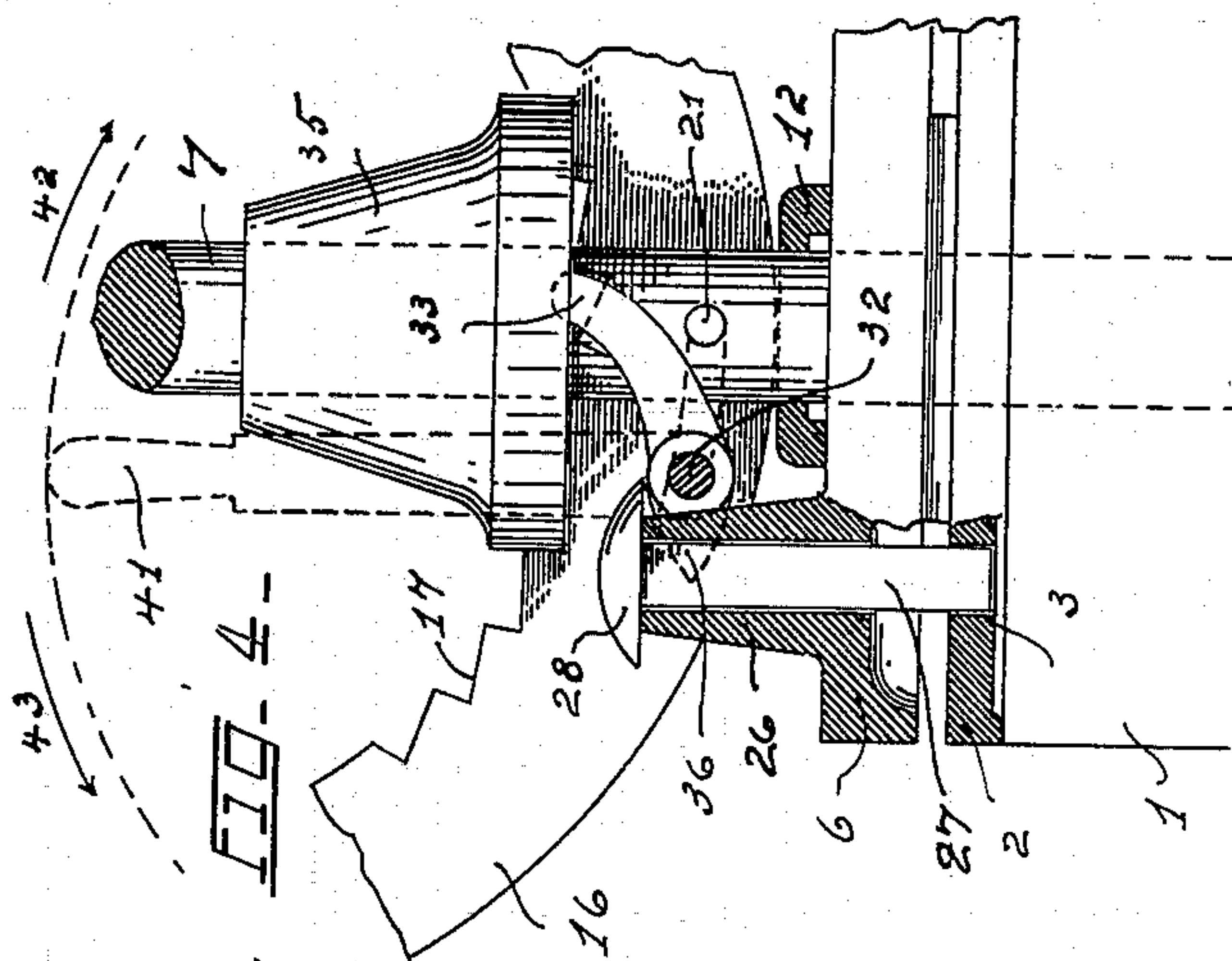


FIG. 4-

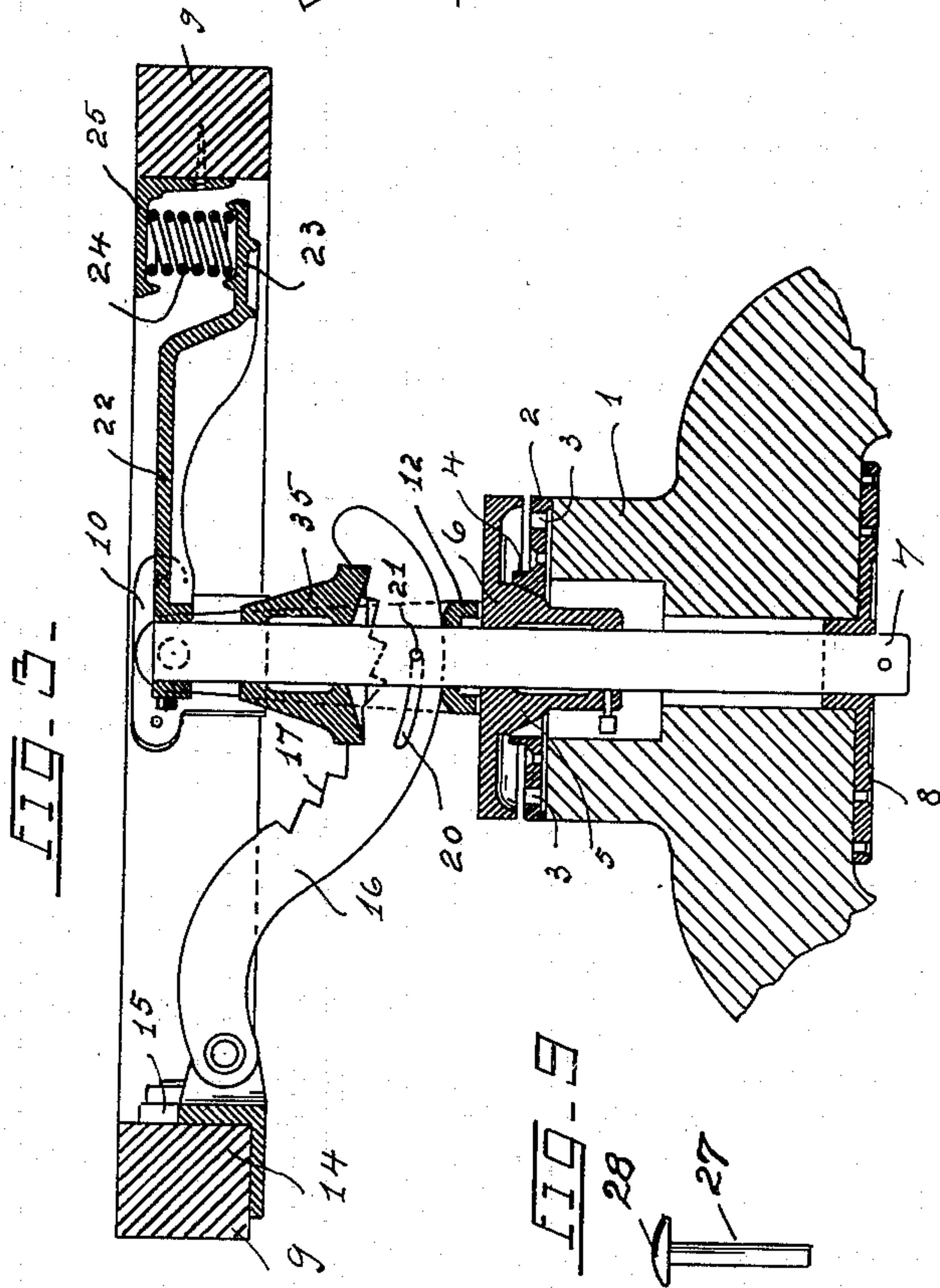
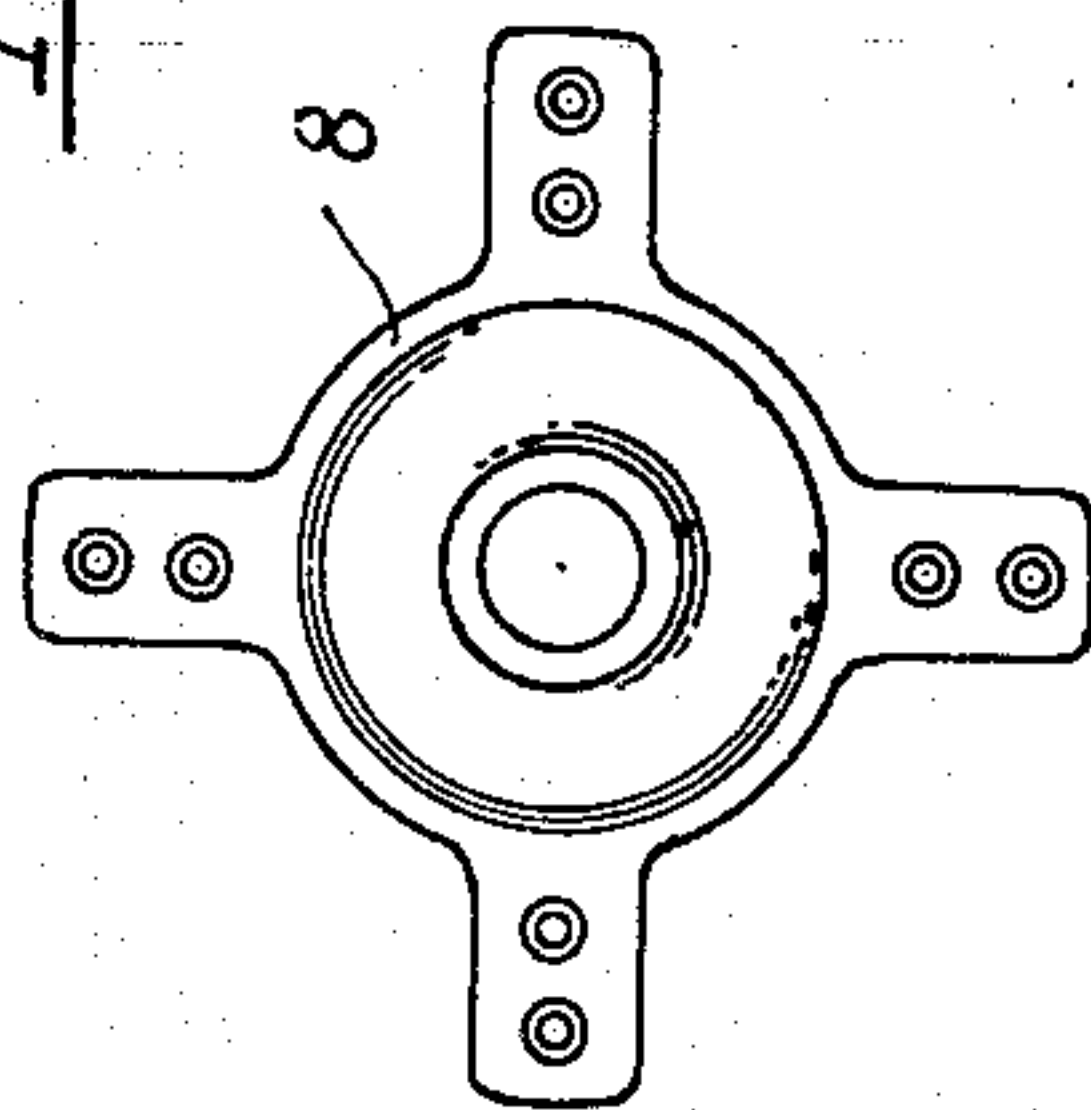


FIG. 3-

FIG. 7-

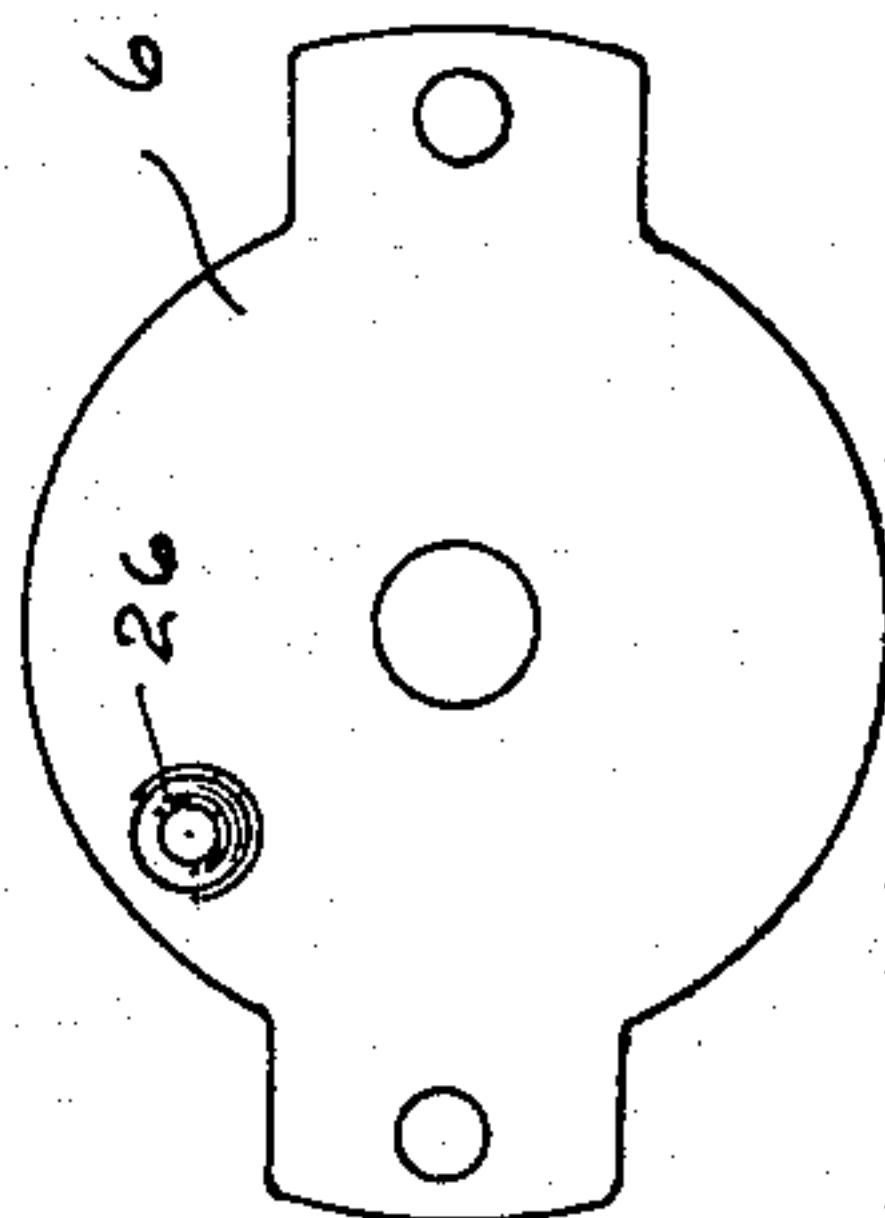
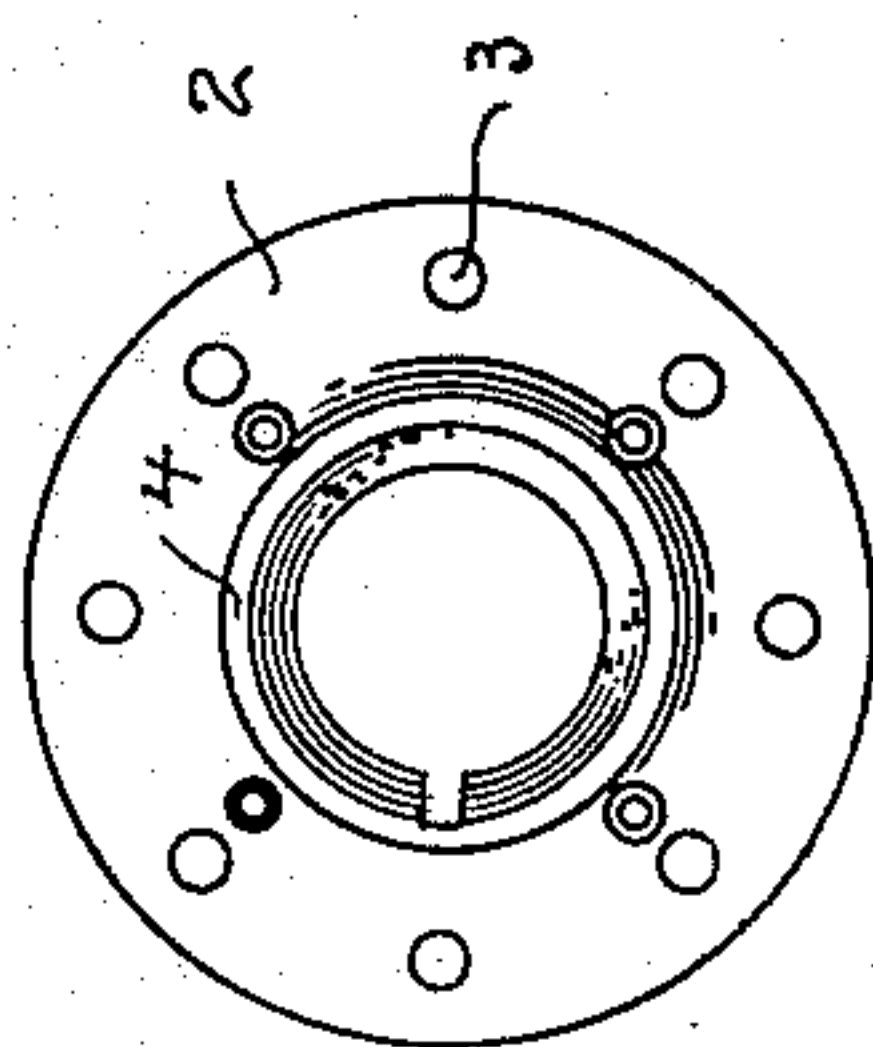


FIG. 6



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# UNITED STATES PATENT OFFICE.

TIMOTHY J. COLLINS, OF TOLEDO, OHIO.

## BARBER'S CHAIR.

SPECIFICATION forming part of Letters Patent No. 612,089, dated October 11, 1898.

Application filed December 21, 1897. Serial No. 662,800. (No model.)

*To all whom it may concern:*

Be it known that I, TIMOTHY J. COLLINS, of Toledo, county of Lucas, and State of Ohio, have invented certain new and useful Improvements in Barbers' Chairs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 numerals of reference marked thereon, which form part of this specification.

My invention relates to a barber's chair, and has for its object to provide simple and inexpensive means for tilting or setting the chair at various angles and locking the same in inclined positions.

A further object is to adapt the body of the chair to rotate horizontally upon its base irrespective of the inclination and provide means for locking the same in any desired position upon the base.

A further object is to adapt the locking mechanisms for tilting and rotating to be operated upon severally by one lever without affecting the other mechanism.

In the drawings, Figure 1 is a perspective view of the chair. Fig. 2 is a rear elevation of the tilting and locking mechanism, also of the operating-lever. Fig. 3 is a vertical section on the line *x x*, Fig. 2. Fig. 4 is an enlarged detail of the locking mechanism. Fig. 5 is a like view. Fig. 6 is a plan view of the bed-plate. Fig. 7 is an elevation of the bottom plate. Fig. 8 is a plan view of the holding-plate. Fig. 9 is an elevation of the drop-pin for the horizontal locking mechanism. Fig. 10 is an enlarged detail of the duplex-cam-operating and horizontal locking and tilting mechanism. Fig. 11 is an elevation of the arbor cam-plate. Fig. 12 is a side elevation of the cam-plate secured to the arbor.

In carrying out my invention I secure to the base 1 a bed-plate 2, having a plurality of circumferentially-spaced holes 3. Integral with the body of the bed-plate there is a projection 4 upon the face, having an oblique inner surface coincident with the oblique portion 5 of the turn-table 6, secured to the arbor 7, which passes centrally through the base 1, and is held in vertical alinement by a plate 8, secured to the under side of the base 1.

9 designates the frame of the chair, having secured upon the inner sides projecting lugs 10 in coincident alinement, and journaled upon the reduced portion 11 of the lugs is a supporting-bracket 12, secured to the turn-table 6 by bolts 13. To the rear bar 14 of frame 9 there is secured a yoke 15, wherein is pivotally mounted a circular bar 16, having a plurality of serrations 17 upon the upper surface corresponding to the number of inclinations of the body of the chair. The circular bar passes through a slot 19, centrally located in the arbor 7 above the turn-table. The circular bar is also slotted, as shown at 20, whereby the tilting of the chair is limited by the pin 21, inserted in the slot and passing diametrically through the arbor 7. To the top portion of the arbor there is secured a bracket-arm 22, having a pendent circular portion 23, wherein is secured a spring 24, pressing against a coincident circular surface 25, secured to the frame 9. The object of the spring is to relieve the pressure of a person sitting in the chair, making it easier for tilting. Integral with the turn-table 6 is an annular boss 26. The aperture of the boss coincides with the holes 3 of the bed-plate 2, and located within the aperture is a pin 27, having a projecting head 28. Secured to the arm 29 of the bracket 12 is a metal portion 30, having projecting flanges 31 at right angles to the body portion and integral therewith, and journaled within these flanges is the cam-arbor 32, having secured at its inner end, next to the arbor 7, a duplex cam 32. The larger portion 34 of the cam is adapted to lift or disengage the circular drop-pawl 35, loosely mounted upon the arbor 7 and engaging the coincident serrations 17 of the circular bar 16. The short cam 36 is adapted to engage the circular head 28 of the drop-pin 27. Adjoining the journal 37 there is mounted upon the arbor a circular collet 38, having a pin 39 in coincidence with a groove or cam depression 40, formed upon the opposite face of the journal 37, whereby upon the rotation of the cam-arbor 32 by means of the hand-lever 41 the short cam 36 is allowed to come in contact with the circular head 28 of the drop-pin 27.

In operation the normal position of the chair is as shown in Fig. 4. The hand-lever 41 is in a vertical position. The horizontal



locking-pin is shown engaging the aperture in the bed-plate 2, thereby preventing rotation of the chair. To disengage the pin, the handle is forced in the direction indicated by the arrow 42, causing the arbor to rotate in the same direction and the pin 39 to drop into the grooved slot, bringing the cam portion 36 in vertical alinement with the projecting head 28, whereby further movement of the handle in the direction indicated by the arrow 42 will lift the pin from its locking position, allowing horizontal rotation of the chair. The tilting mechanism is released by forcing the lever in an opposite direction, as indicated by the arrow 43, whereby the short cam-lever is depressed and the larger portion 34 is raised until it contacts with the drop-pawl 35, thereby disengaging the same from the serrations of the circular bar 16 and allowing tilting of the pivoted chair upon the bracket 12.

It will be seen that the cam-arbor is adapted to lateral movement and is normally held to the journal 37 by a spring 44, encircling the arbor and interposed between the journal 45 and the lever 41, thereby causing the pin 39 to normally press against the side of the journal 37, causing the engagement or disengagement of the short cam 36, adapted to engage the head of the drop-pin 27. It will also be seen that by the reverse movement of the lever 41 the locking mechanism is operated upon severally and independently. The chair may be tilted and locked in any desired position and rotate freely upon the bed-plate and locked in any desired position, or the bed-plate may be locked and the chair tilted in any desired position. The interposition of the spring between the stationary horizontal bracket 22 and a coincident bracket or lock secured to the frame 9 of the chair at the front will cause an easy movement toward the inclination by the compression of the spring caused by the weight of the occupant of the chair. The cam operating the locking device may also be made separate and secured to the arbor 32 independently, the smaller cam 36 being preferably secured to the outside of the annular boss 26.

46 designates a support for the foot-rest 47. What I claim is—

1. In a barber's chair, a base, a bed-plate secured to the base, a rotary plate journaled in the bed-plate, an arbor secured to the rotary plate and journaled in the base, a bracket secured to the rotary plate and the chair-body, a yoke secured to the rear frame of the chair-body, a curved bar pivotally secured to the

yoke, and passing through an aperture in the arbor, and having serrations upon its upper edge, a vertically-movable drop-pawl mounted upon the arbor, adapted to engage the serrations upon the curved bar, and means for raising the pawl, a horizontal slot in the curved bar, and a pin passing diametrically through the arbor and the slot of the curved bar.

2. In a barber's chair, a base, a bed-plate having circumferentially-spaced holes, a rotatable plate journaled in the bed-plate, having an annular boss formed on its upper face in vertical alinement with the holes in the bed-plate, a pin inserted in the boss, and adapted to enter the holes in the bed-plate when brought into coincidence, an arbor journaled in the base, a vertically-movable drop-pawl, a bracket secured to the rotatable plate, a plate secured upon the bracket, an arbor journaled in the plate, having a lever upon one end, and a duplex cam upon the opposite end, adapted to engage either the drop-pawl or the projecting head of the pin according to the direction of movement of the lever.

3. In a barber's chair, a base, a chair-body pivotally and revolubly supported thereon, an arbor journaled in the base tilting and locking mechanism, an arbor journaled in a plate secured to a bracket-arm, a cam depression formed upon a face of the journal, a collet mounted upon the arbor opposite the grooved journal-face, having a projection facing the journal, and adapted to enter the cam depression formed upon the face of the journal, a duplex cam secured upon the inner end of the arbor, a lever secured to the arbor, a spring interposed between the journal and the lever, and encircling the arbor, where by rotating the arbor, the projection of the collet is made to enter the coincident depression formed upon the face of the journal and the arbor is moved outwardly, thereby alining the cam secured to the inner end of the arbor, with the projecting head of the pin, a projecting arm secured to the upper portion of the vertical arbor, adapted to support a spring at its outer end, and a lug portion secured to the frame of the chair in abutment to the spring.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

TIMOTHY J. COLLINS.

Witnesses:

WILLIAM WEBSTER,  
HERMAN H. MARTIN.