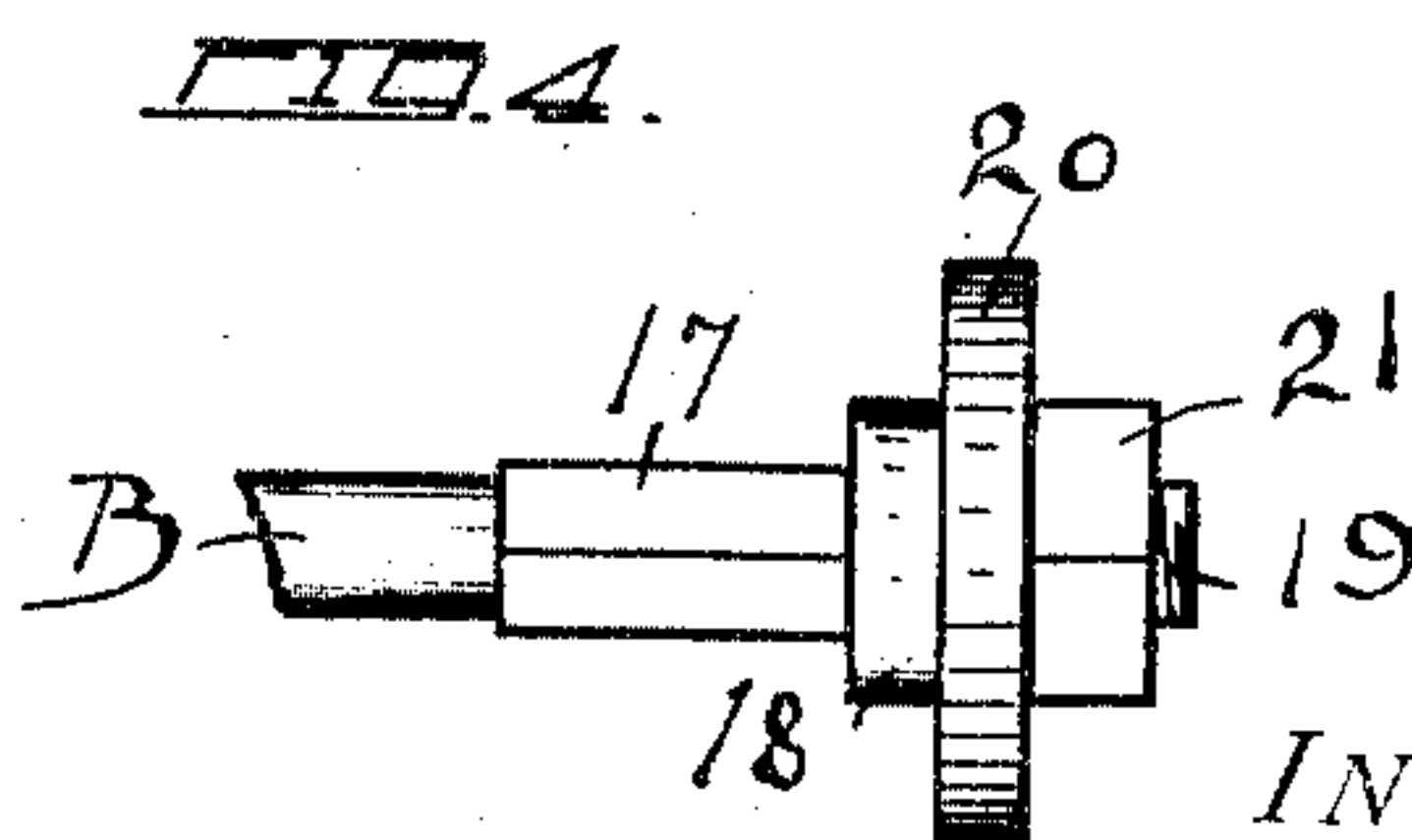
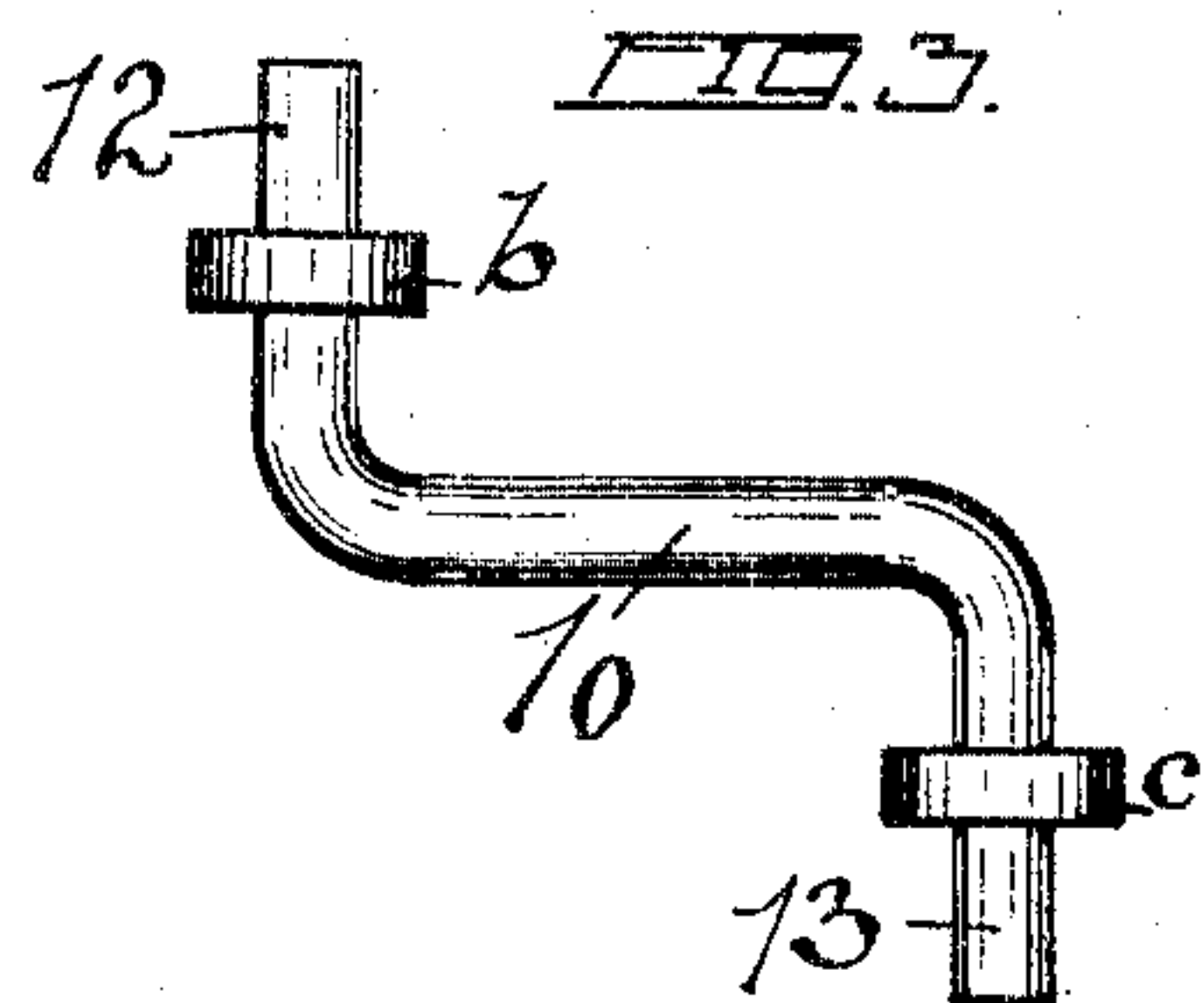
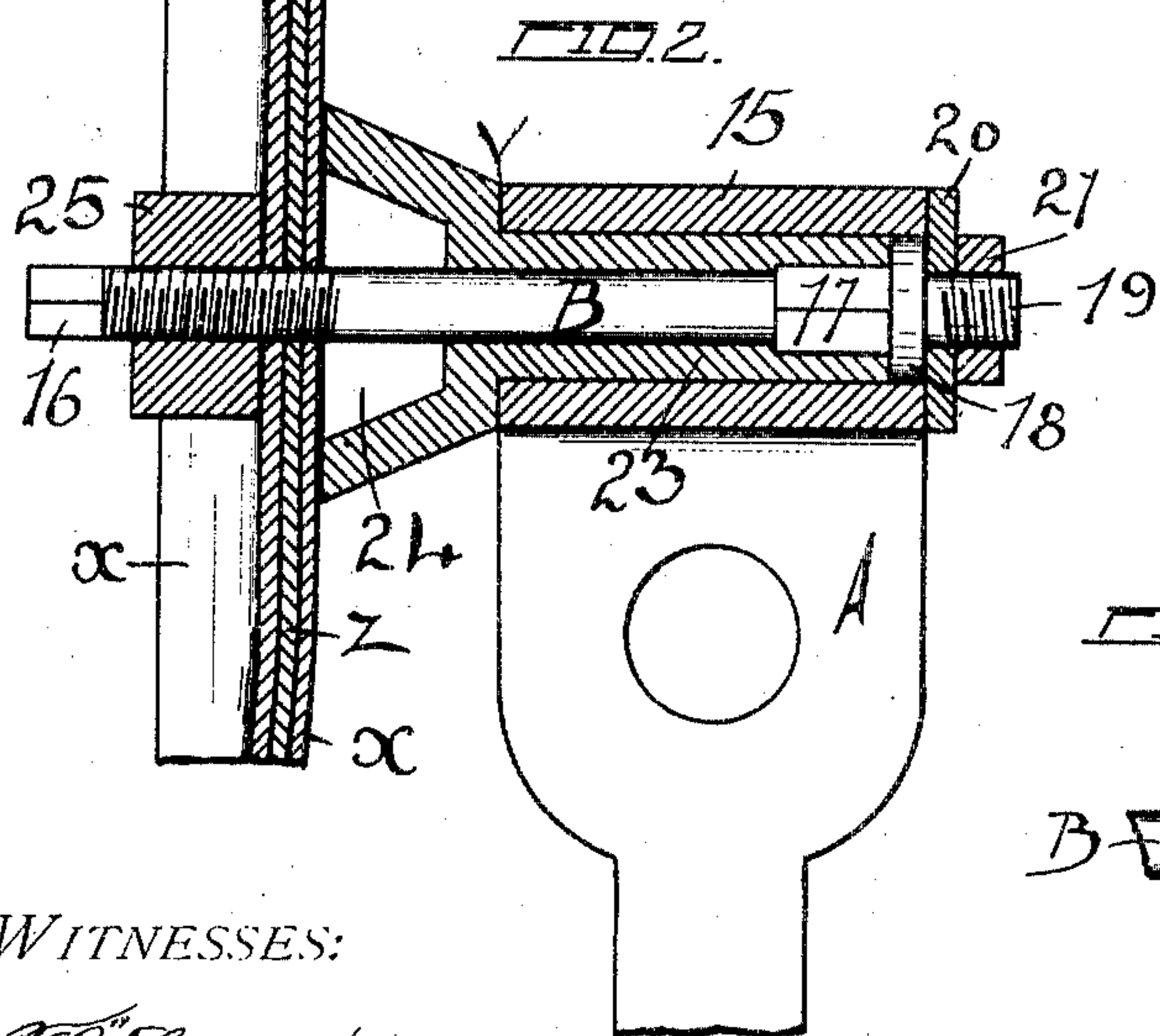
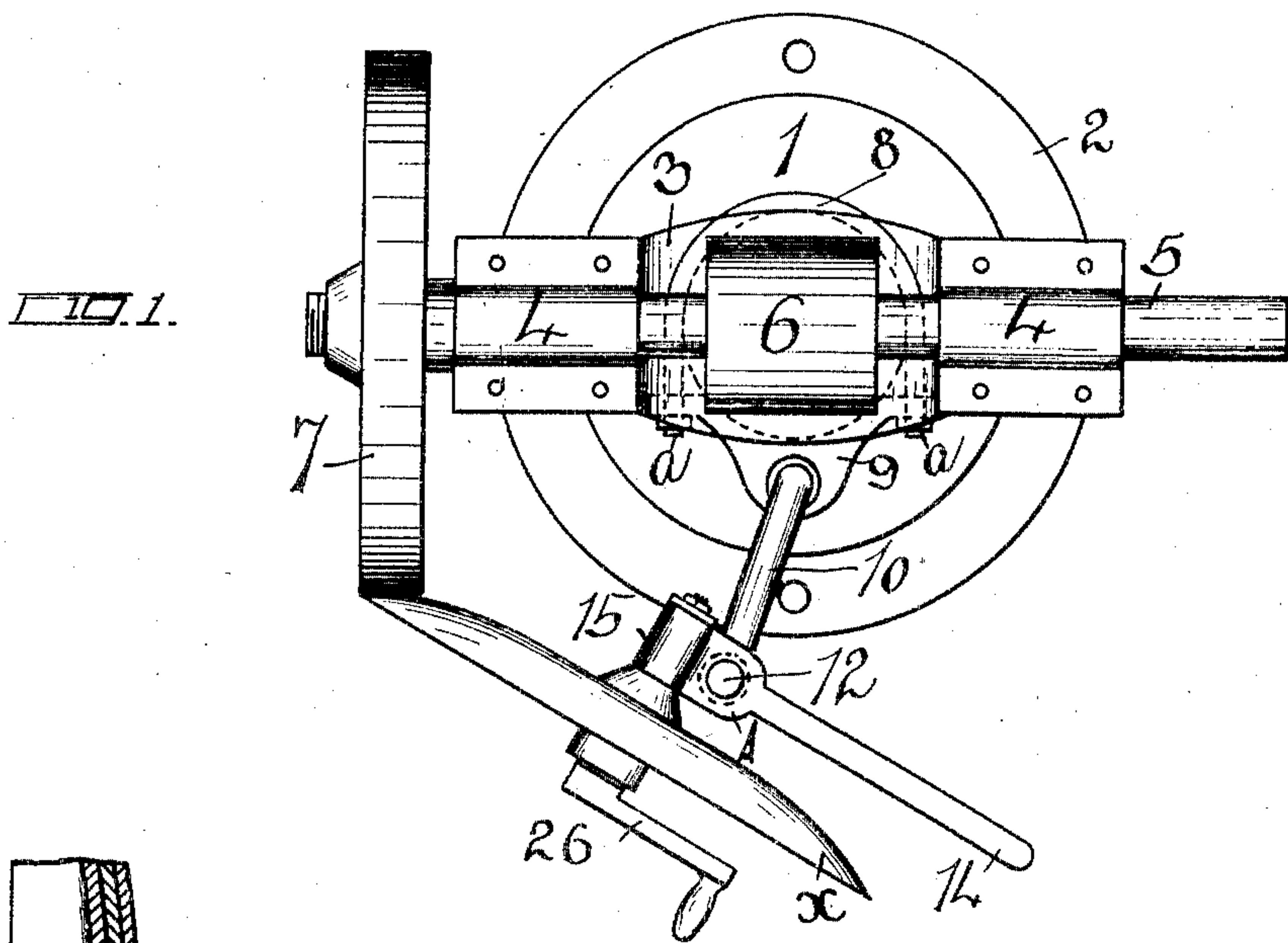


No. 776,585.

PATENTED DEC. 6, 1904.

J. DURKEE.
DISK AND COLTER HOLDER.
APPLICATION FILED MAR. 29, 1904.

NO MODEL.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN DURKEE, OF WOODBINE, IOWA.

DISK AND COLTER HOLDER.

SPECIFICATION forming part of Letters Patent No. 776,585, dated December 6, 1904.

Application filed March 29, 1904. Serial No. 200,659. (No model.)

To all whom it may concern:

Be it known that I, JOHN DURKEE, residing at Woodbine, in the county of Harrison and State of Iowa, have invented certain useful
 5 Improvements in Disk and Colter Holders; and I do hereby declare that the following is 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
 10 same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to a new and novel improvement in disk and colter holders.

15 The aim of my invention is to provide a simple device adapted to be attached to a suitable emery-stand, so arranged that the holder will receive a disk of any size which may be adjusted to the holder and be held adjacent
 20 the emery-wheel in such a manner that any desired bevel or cutting edge may be provided, the device further being neat and simple of construction.

In the accompanying drawings I have shown
 25 in Figure 1 a top view of the emery-stand, disclosing a holder secured and held adjacent a suitable emery-wheel. Fig. 2 discloses an enlarged detail of the journal securing the disk-holding shaft. Fig. 3 discloses an elevation
 30 of the swinging holder as used in my invention, while Fig. 4 discloses a detail of the end of the disk-holding shaft.

In carrying out the aim of my invention I use any suitable emery-stand of any suitable
 35 height and provided with the usual base-frame 2, by means of which the stand is secured to the floor, and which emery-stand above is provided with the head 3, having the bearings 4, supporting the main driving-shaft 5, provided
 40 with the belt-pulley 6, adapted to receive a suitable driving-belt, while to one end of this shaft 5 is secured a suitable emery-wheel 7.

Secured to the stand 1 is the collar-bearing 9, held by means of the strap 8, secured by
 45 the bolts *a*, and working within this collar-bearing 9 is a holder in the form of a double-ended crank-rod 10, provided with the upwardly-extending stub-shaft 12, to which is

secured the supporting-collar *b*, while the stub-shaft end 13 is fixed with the stop-collar
 50 *c*, as clearly shown in Fig. 3.

The shaft 5 is adapted to be revolvably held within the collar-bearing 9 to swing freely thereon, while the stub-shaft 12 is adapted to removably and revolvably receive the head A
 55 of the operating-lever 14, this head A being provided with the bearing 15, adapted to revolvably secure the hub 23, through which extends and within which is held in a fixed condition the shaft B, having the square shoulder
 60 end 17, terminating in the threaded end 19, and further being provided with the shoulder 18, between which end the retaining-nut 21 of which is held the washer 20, operating against the end of the bearing 15, the hub 24 being
 65 provided with a shoulder *v*, as shown in Fig. 2, to insure the bearing 15 to be snugly held between the shoulder *v* and washer 20. At the remaining end the shaft B is provided with the square end 16, this end also being
 70 threaded to receive the nut 25, and interposed between the hub 24 and the nut 25 are held the disks *x*, the outer one of which is to be sharpened. Interposed between the two disks is the preferably felt pad *z*, which is merely
 75 used to determine the sound, a second or inner disk *x* being used as a holder for the pad. Where no pad is used, the disk is apt to vibrate and make considerable noise. Now when it is desired to sharpen and bevel the edge of
 80 the outermost disk a suitable power is applied to the pulley 6 to rotate the emery-wheel 7, when the operator grasps the operating-lever 14 and fixes a crank-handle 26 to the end of the shaft B and rotates the disk *x* to provide
 85 the disk with the proper bevel or sharpening edge. The tension under which the disk is brought against the emery-wheel is regulated by means of the lever 14, the disk *x* being turned to bring the cutting edge successively
 90 in front of the emery-wheel.

As the holder 10 swings freely inward and outward, it is of course understood that any sized disk-plate or rolling colter can be
 ground, and

Having thus described my said invention,

what I claim as new, and desire to secure by United States Letters Patent, is—

The combination with a suitable stand, of a collar-bearing secured to said stand, a holder
5 in the form of a double-ended crank-rod provided with an upwardly-extending stub-shaft and a downwardly-extending stub-shaft, said downwardly-extending stub-shaft working within said collar-bearing, an operating-lever
10 pivotally secured to said upwardly-extending stub-shaft, said operating-lever being provided with a bearing, a hub revolubly held within said bearing, a shaft fixed within said hub and projecting at each end beyond the

same, a nut securing said fixed shaft at one 15 end, said nut projecting beyond said hub to revolubly secure said hub within said lever-bearing, said hub being provided with a flaring neck portion, said fixed shaft being adapted to receive a suitable disk, and a crank to 20 rotate said shaft, all arranged substantially as and for the purpose set forth.

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

JOHN DURKEE.

Witnesses:

MAY VANDERFORD,
FREDERICK J. LARSON.