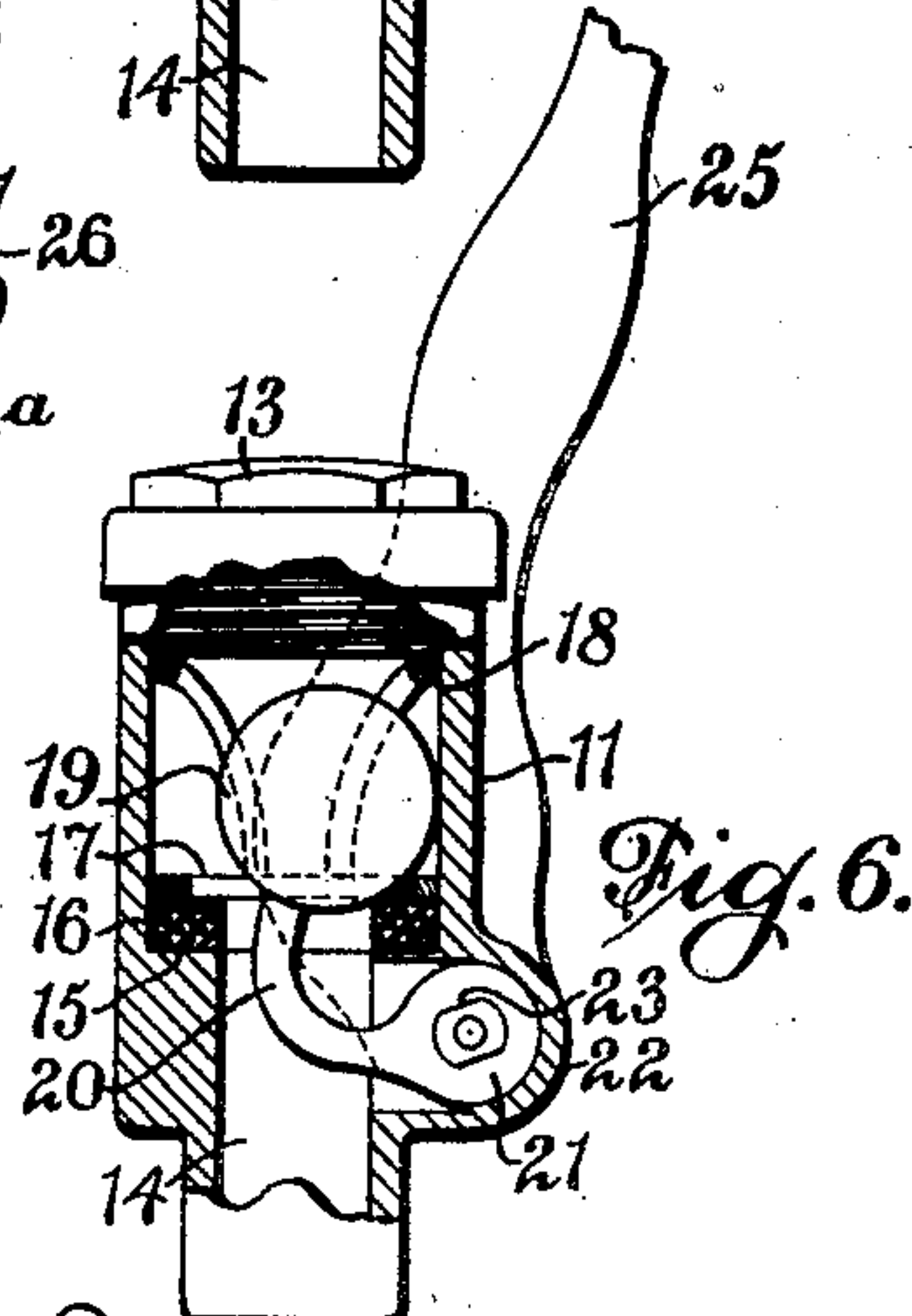
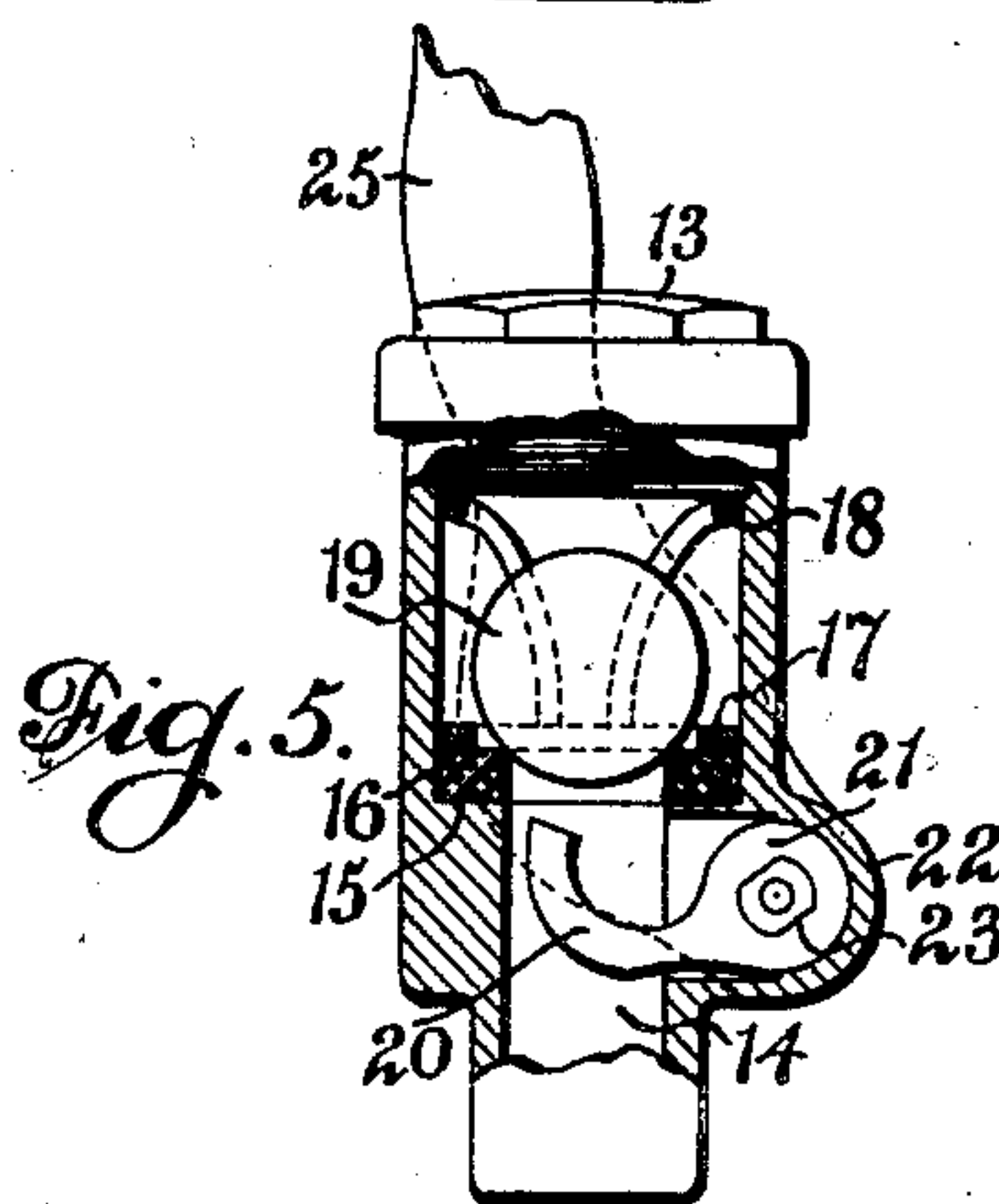
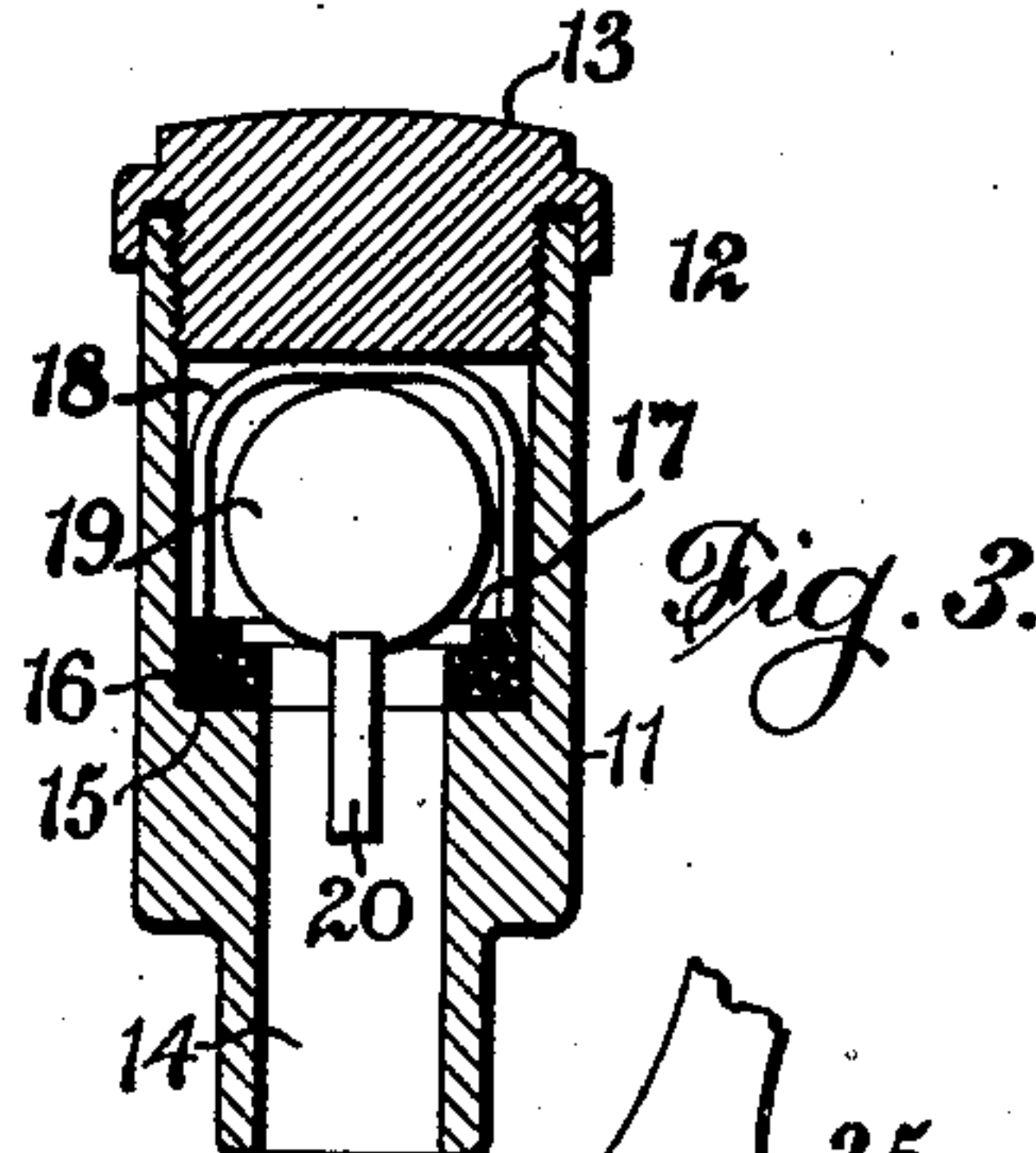
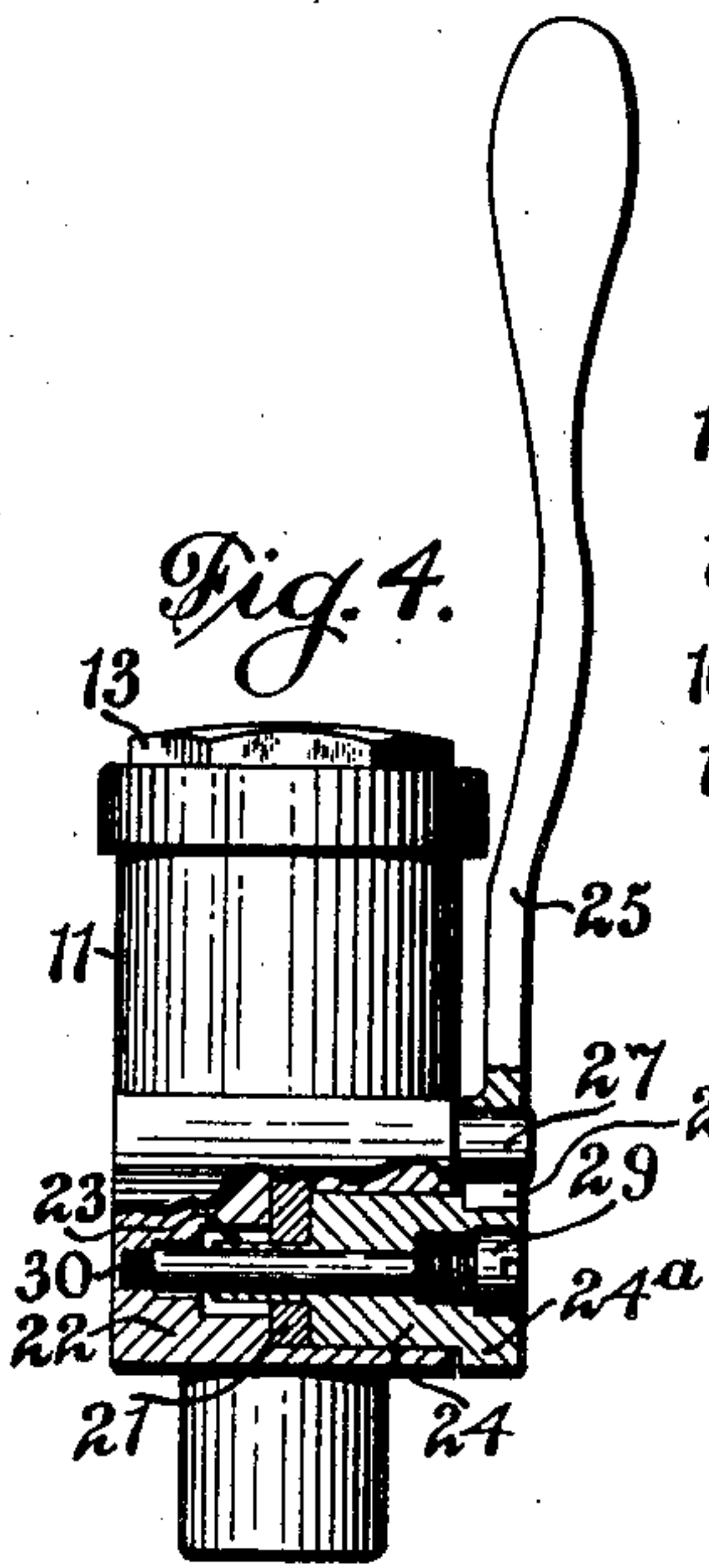
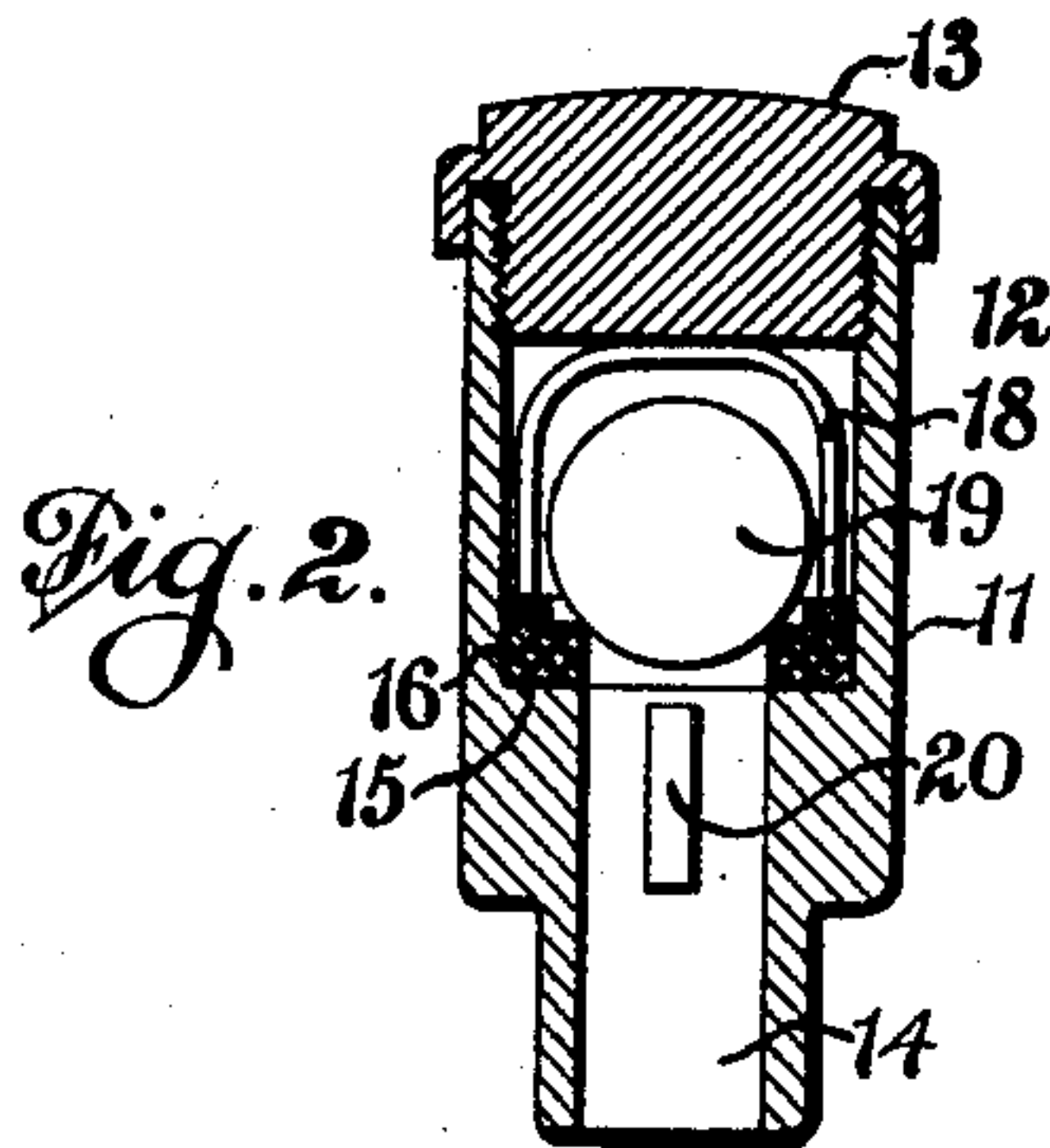
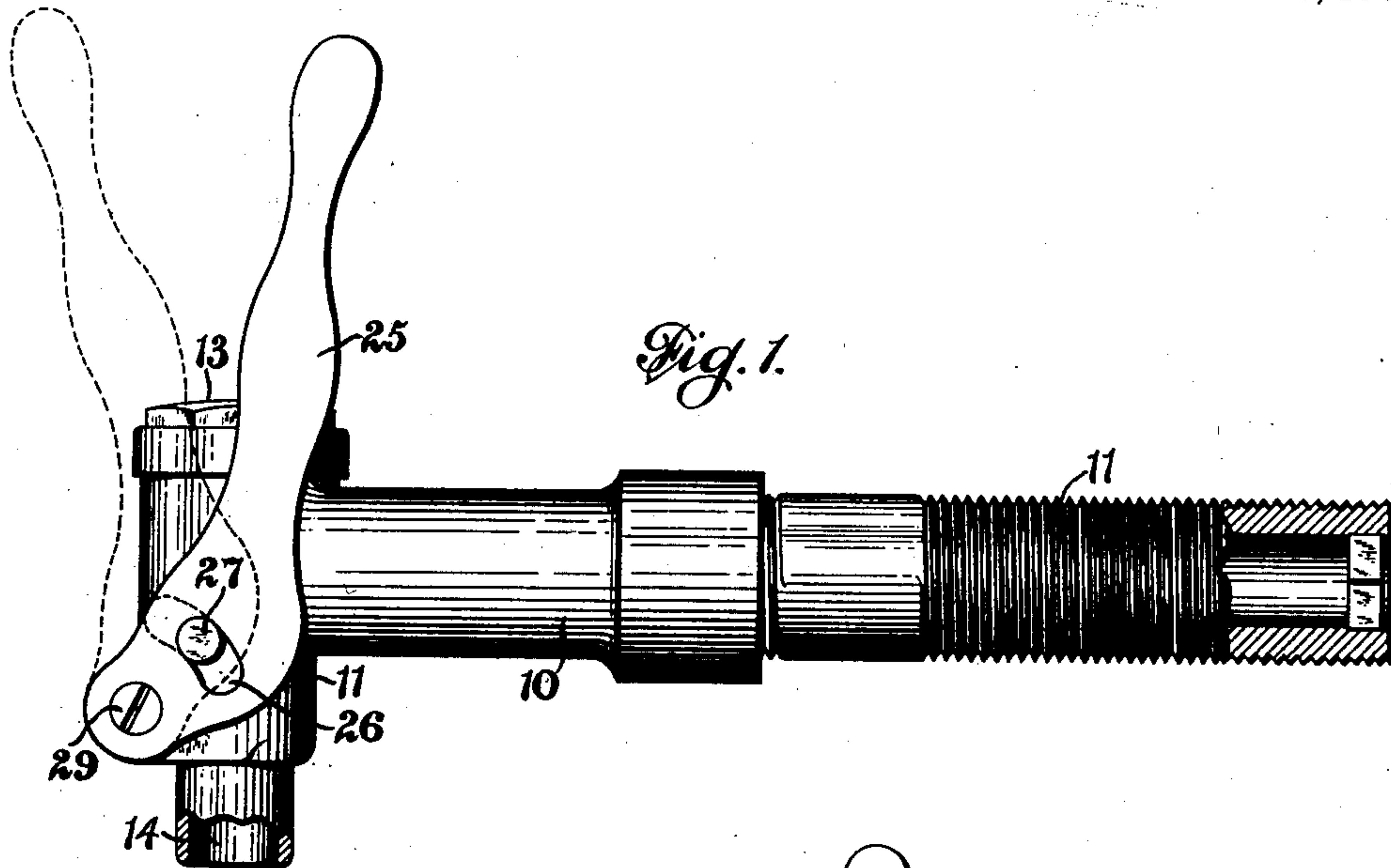


T. DAVIS.
BEER FAUCET.
APPLICATION FILED OCT. 23, 1908.

940,438.

Patented Nov. 16, 1909.



Witnesses:
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UNITED STATES PATENT OFFICE.

THERON DAVIS, OF NEW YORK, N. Y.

BEER-FAUCET.

940,438.

Specification of Letters Patent. Patented Nov. 16, 1909.

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To all whom it may concern:

Be it known that I, THERON DAVIS, of the city, county, and State of New York, have invented a new and useful Improvement in Beer-Faucets, of which the following is a full, clear, and exact description.

My invention relates to improvements in beer faucets, and the object of my invention is to produce a simple faucet which can be very quickly taken apart or put together, and which therefore is unusually cleanly, and further to produce a faucet of this character which enables the beer to be drawn without much foaming, and in which the faucet is self locking and adapted to control the beer perfectly.

My invention relates to improvements in the type of beer faucet in which a chambered head carries a ball valve which is raised by a finger operated by an exterior lever, so that the beer may flow past the valve, and my invention improves this type of faucet and provides a simpler means than has heretofore been employed for guiding the ball, and also provides a very simple means for removing the washers and guide from the chamber in which the ball valve is located.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar reference characters indicate corresponding parts in all the views.

Figure 1 is a broken side elevation of the faucet embodying my invention. Fig. 2 is a cross section through the chambered head, showing the valve at rest. Fig. 3 is a view similar to Fig. 2, but with the valve slightly raised. Fig. 4 is a detail view showing the journal for the valve operating lever, and Figs. 5 and 6 are sectional views through the chambered head, and illustrate in different positions the valve and a modified means of guiding it.

The faucet has the usual barrel 10 which delivers into a vertical head 11, having an enlarged chamber 12 to receive the beer, and this chamber is closed by a screw cap 13. In some forms of valves this screw cap is made long and is hollowed out so that it can extend down into the chamber and form a guide for the valve heretofore described, but this is one of the objectionable features which I seek to avoid, as it requires a great deal of metal and adds considerable to the expense of the faucet, while the improvement which I show renders the faucet

cheaper and also makes it work better. The beer is discharged from this chamber 12 through the reduced end 14 of the head 11. The bottom of the chamber 12 forms a seat 15 on which is placed a gasket 16, preferably of rubber, and this is held down and prevented from sticking to the valve 19 by a metal washer 17, and the latter has a bail-like skeleton guide 18 which extends upward and laterally so as to form a guide for the valve 19. When the valve 19 is lifted by the finger 20, as is usual in faucets of this character, it follows up along the guide 18 and is thereby prevented from displacement, and at the same time there is sufficient friction on the ball to prevent it from spinning to any great extent, as I have found that it is the spinning of the ball which causes a good deal of the foaming in beer. The reason for this foaming in beer faucets is the excessive agitation of the beer whereby the gas is broken up too fast, just as the agitation of any effervescent liquid will cause the effervescence to be increased, and the ball valve if allowed to spin rapidly while the beer is being drawn, will cause this agitation, whereas in my form of faucet, the guide 18 which frictionally engages the valve while the liquid is running through the faucet, prevents the spinning in a great measure and so the beer is drawn without excessive foaming. This bail-like guide 18 enables the washer 17 and gasket 16 to be very easily removed, as one can stick his finger into the chamber 12 after removing the cap 13, and simply lift the washer from its seat. If desired this bail-like guide 18 may be duplicated as shown in Figs. 5 and 6 so as to extend in both directions from the washer 17, and so guide the valve whether it tips forward or back.

The finger 20 which swings in the lower portion of the head 11 and lifts the ball valve, has an enlarged base portion 21 which is fixed to the faceted end 23 of the journal 24, so that when the journal is tilted the finger will be also moved. The journal 24 and base 21 turn in an offset 22 on the head 11, and the journal has a shoulder 24^a which abuts with the outer end of said offset as shown best in Fig. 4. The outer end of the journal is integral with the operating lever 25, although obviously the two can be separate if desired. This operating lever has a widened portion with a curved slot 26 therein (see Fig. 1) which moves over the stud

27 on the head 11, and the lever is pivoted as already described by means of the journal 24. The journal and the recessed end 23 are longitudinally bored to receive the fastening screw 29 which has a recessed end 30, screw threaded and fitting in a corresponding socket in the head 11. It will be seen that there is no tension on the screw because the journal 24 and base 21 of the finger 20 bear against a seat on the inner end part 21, while the shoulder 24^a of the journal cap abuts with a part of the head 11.

The operation of the device is obvious. By tilting the lever 25 in one direction, the finger 20 and ball 19 are raised so as to permit the beer to flow by, while by tipping back the lever, the finger 20 is dropped and the pressure of the beer forces the ball valve firmly to its seat.

I am aware that faucets somewhat similar in general appearance to mine have been patented, but my improvement relates to details, and especially to the ball guide and accessories, and to the manner in which the operating lever is journaled.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent:—

1. A faucet comprising a barrel having a chambered head an intake above the valve and a discharge portion, a ball valve located in the said chambered head, mechanism for lifting the valve, and a skeleton guide supported adjacent to the valve seat and extending upward so as to properly guide and frictionally engage the valve in its up and down movement.

2. A faucet having a barrel portion, a chambered head an intake above the valve and discharge portion, a ball valve in the said chambered head, means for lifting the valve, and a bail-like guide arranged adjacent to the valve seat and curving upward and outward so as to guide and frictionally engage the valve in its up and down movement.

3. A faucet of a general elbow shape, with a chambered vertically arranged head having a valve-seat in the lower part thereof and an in-take above the valve, a washer on

the seat, a bail-like guide secured to the washer and extending upward into the head, a ball valve operating in and frictionally engaging the guide, and means for raising the ball valve.

4. A faucet having a horizontal barrel, a vertical chambered head receiving the discharge from the barrel and having an outlet at the bottom, a cap to close said chamber, a ball valve in the chamber below the intake, means for lifting the valve, and a washer supported on the valve-seat and having an upwardly extending bail-like guide which frictionally engages the ball-valve when the latter is lifted.

5. In a faucet of the kind described, the combination with the ball valve and its casing, of the handled journal of relatively large size extending well into the casing below the valve, said journal having a reduced inner portion to receive the valve finger, a finger on the reduced end of the journal abutting with a shoulder on the journal and the valve casing and adapted to swing up against the ball valve, and a fastening screw extending through the journal and threaded to fit a corresponding socket in the casing.

6. In a faucet such as described, the combination with the chambered head having a valve-seat therein and an in-take above the valve-seat and a free ball-valve located on the seat between it and the in-take, of means within the chamber for guiding and frictionally engaging the ball while it is lifted from its seat.

7. A faucet having a general elbow shape with a chambered head having a discharge at its lower end and an in-take near the top, a valve seat above the discharge of the head, a free ball-valve on said seat, and an upwardly extending guide supported on the seat and serving to direct and frictionally engage the ball valve when the latter is lifted.

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Witnesses:

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