

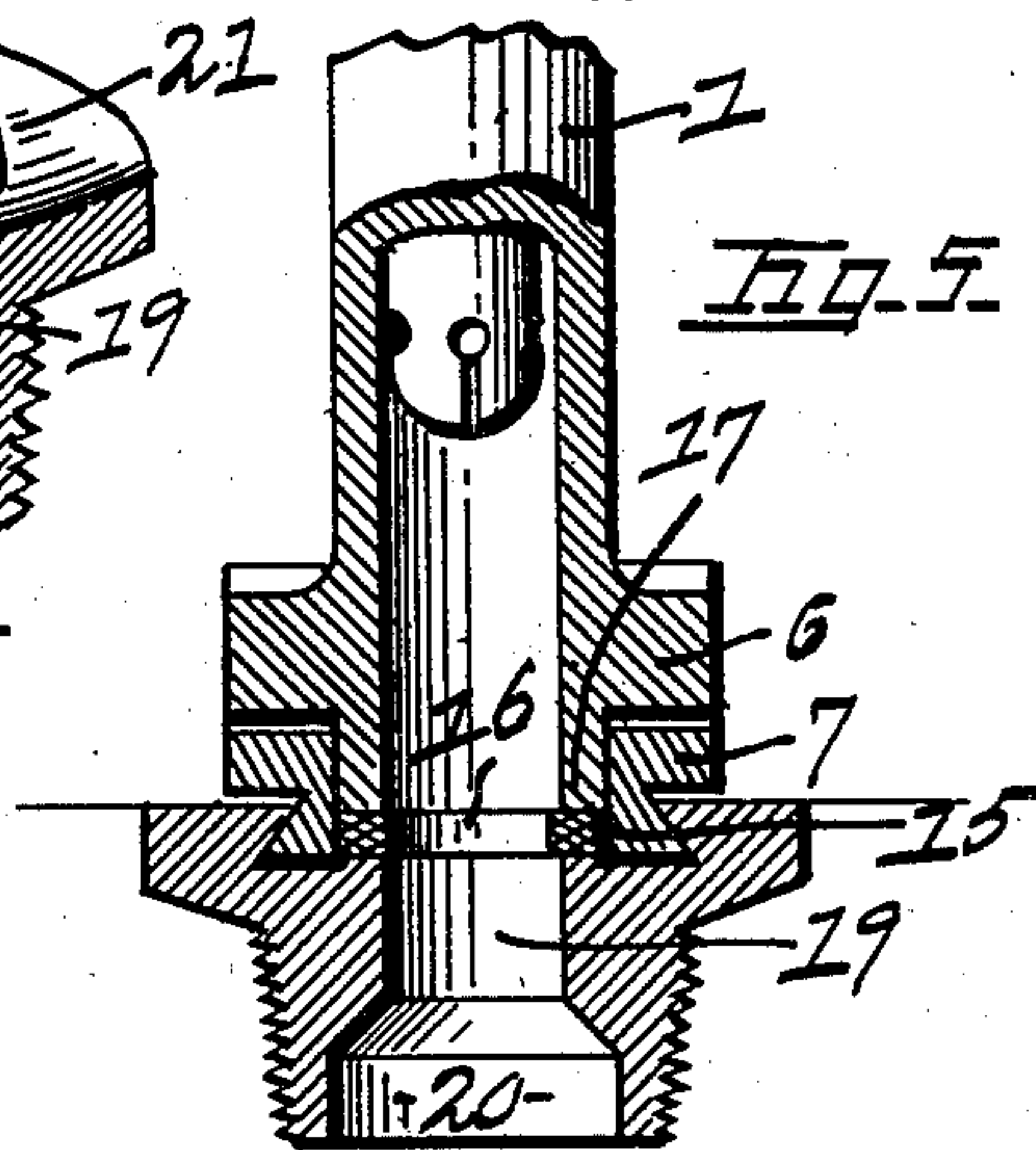
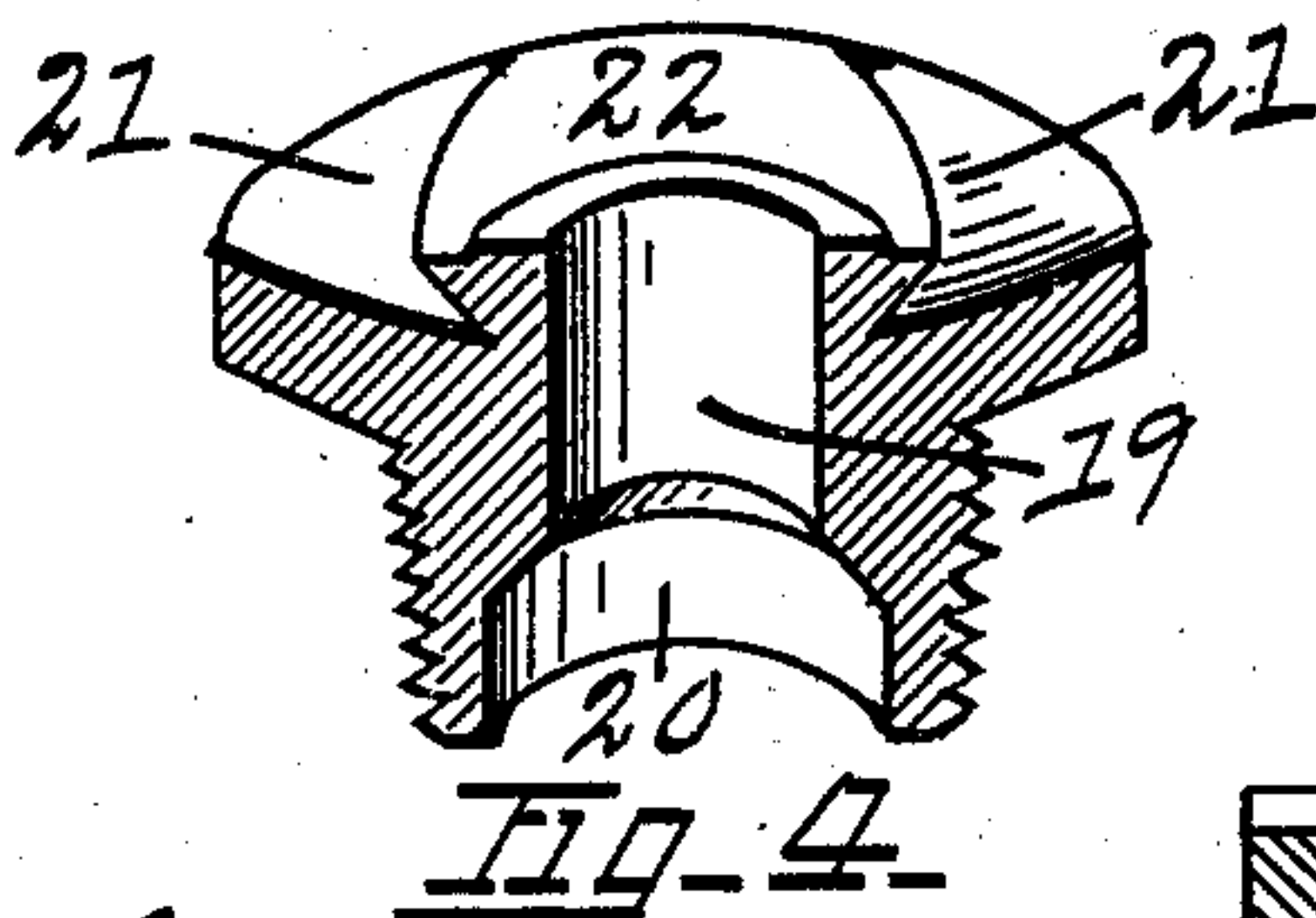
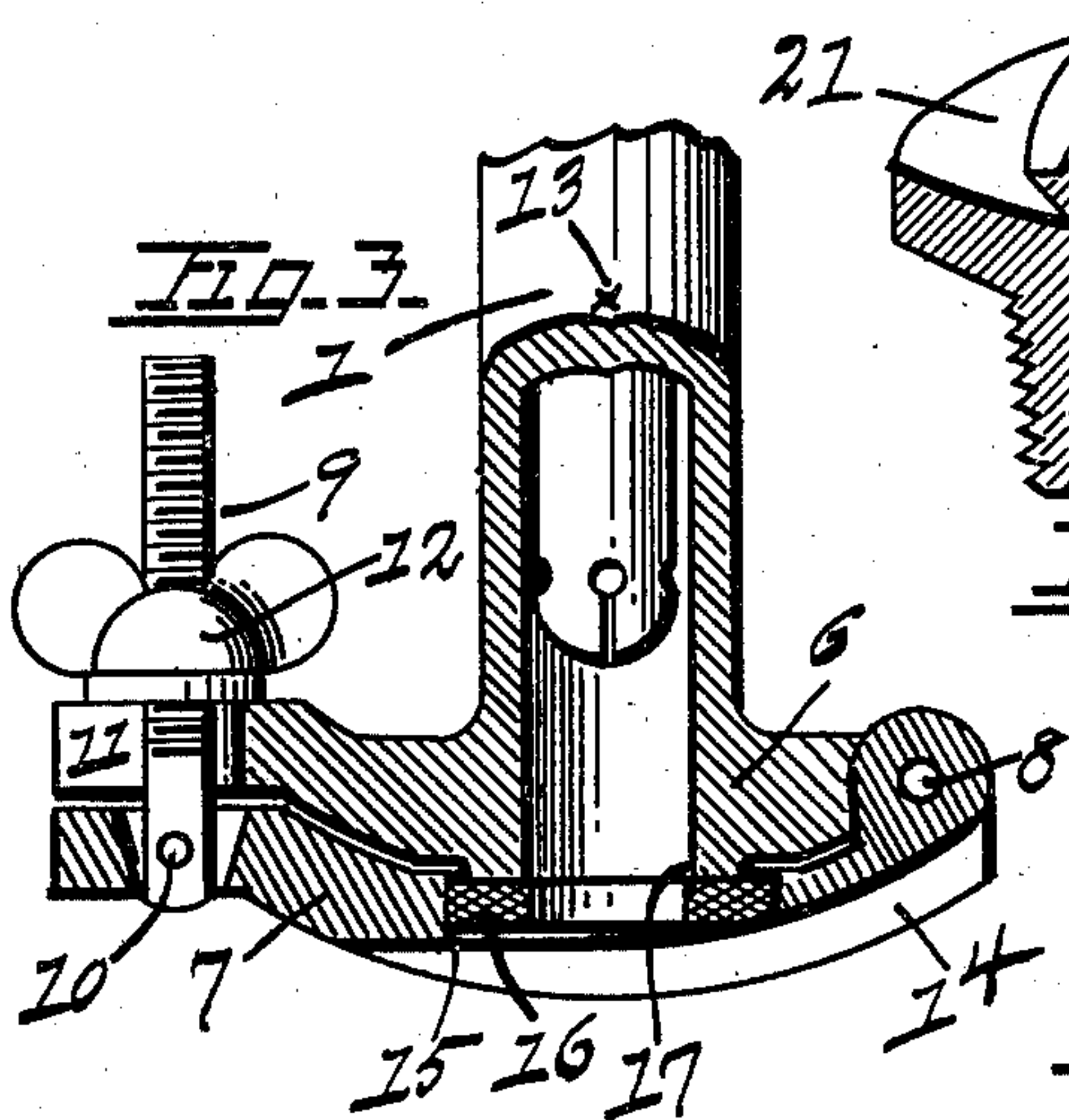
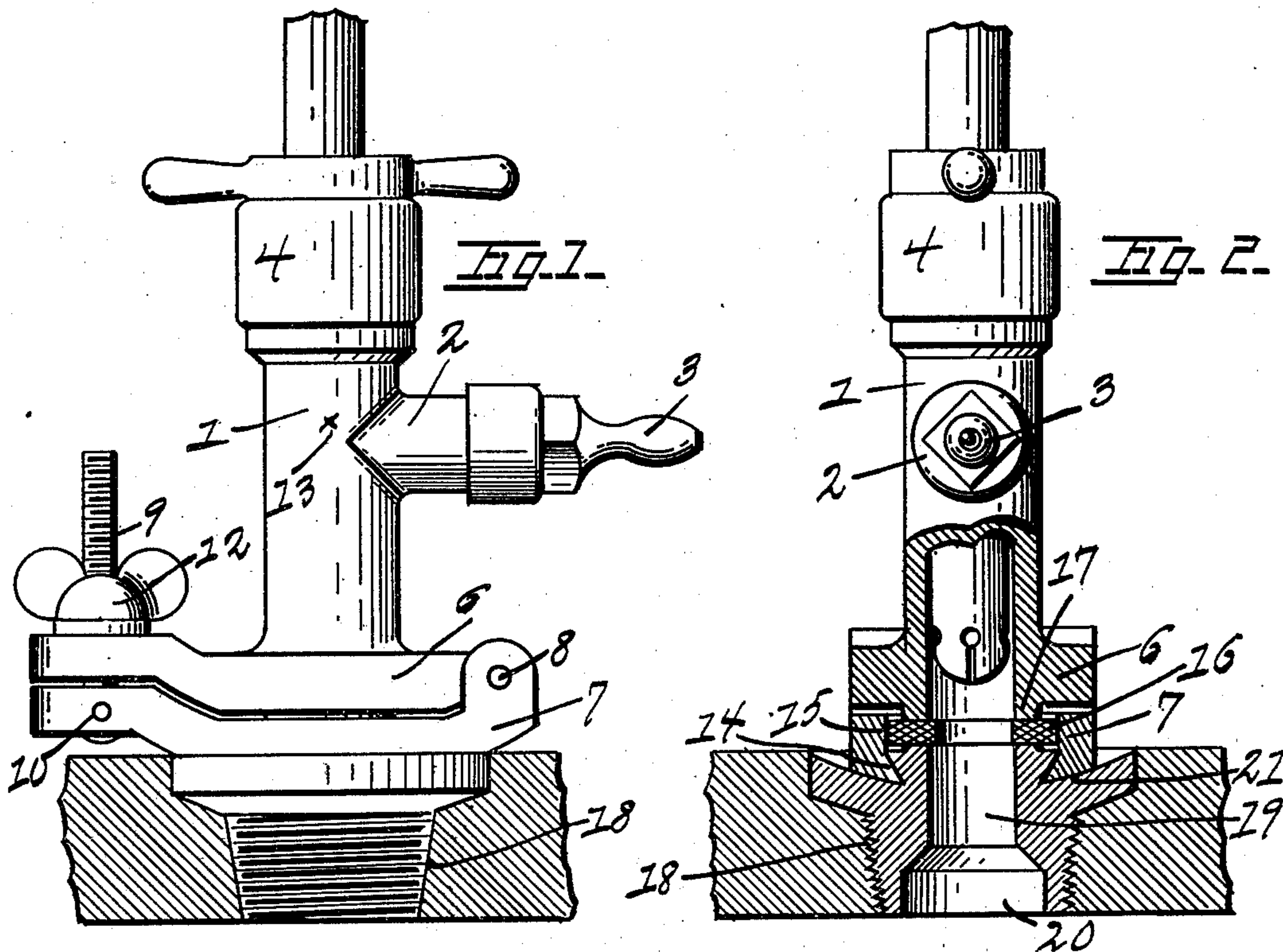
No. 671,284.

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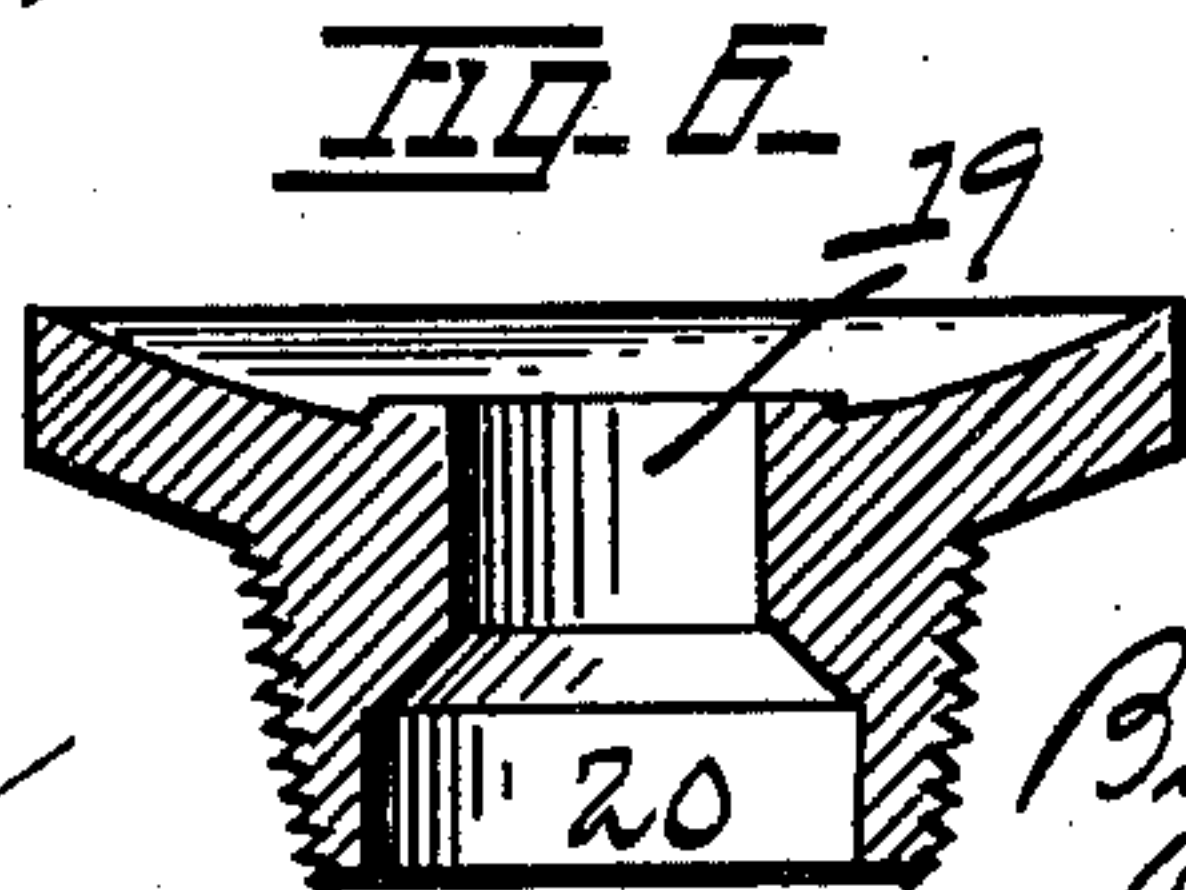
A. KUMMERO.
BARREL TAP AND BUSHING.

(Application filed Jan. 7, 1901.)

(No Model.)



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BARREL TAP AND BUSHING.

SPECIFICATION forming part of Letters Patent No. 671,284, dated April 2, 1901.

Application filed January 7, 1901. Serial No. 42,333. (No model.)

To all whom it may concern:

Be it known that I, ALBERT KUMMERO, of Toledo, county of Lucas, and State of Ohio, have invented certain new and useful Improvements in Barrel Taps and Bushings; 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 figures of reference marked thereon, which form part of this specification.

My invention has reference to a fluid-tap and bushing for withdrawing the contents of a barrel or cask, and has for its object to provide a tap which may be attached and detached by turning upon a horizontal axis transverse to the longitudinal axis and which is adapted to be secured when in position by a clamping device.

In carrying out my invention I employ a novel form of bushing adapted to be secured in the enlarged orifice in the head of the barrel or cask and a novel fastening on the lower end of the tap to cooperate with the bushing to form a tight joint.

The invention consists in the combination of the tap having an arc-shaped foot formed with engaging surfaces, a bushing having an arc-shaped depression complementary to the arc-shaped foot of the tap and formed with engaging surfaces, and means for clamping the tap when in position to the bushing. It also consists in the more specific construction shown, described, and claimed.

In the drawings, Figure 1 is an elevation of my invention. Fig. 2 is a sectional view showing the means for clamping the tap to the bushing. Fig. 3 is a section of the lower end of the tap, taken transverse to the section of Fig. 2. Fig. 4 is a sectional perspective of the bushing. Fig. 5 is a cross-section of a modified form of tap and bushing which embodies my invention. Fig. 6 is a detached sectional elevation of the modified bushing.

Referring to the parts, my preferred form of tap (shown in Figs. 1, 2, and 3) comprises the usual tubular body portion 1 and the lateral extension 2, formed with a nipple 3 for connection with an air-tube carrying air under pressure from a hand-pump or other suitable

air-compressing mechanism. 4 is a stuffing-box for the sliding tube 5, which is adapted to enter the barrel after the tap is in position to conduct the fluid contents therefrom. The lower end of the tap comprises an upper clamp member 6, integral with the tubular portion 1, and a lower clamp member 7, hinged to the upper clamp member at 8. 9 is a clamping-bolt pivoted to the lower clamp member at 10, which passes upwardly through a recess 11 in the upper clamping member 6 and has a wing-nut 12 run thereon to force the clamping members together when the tap is in position upon the bushing. The lower face of the lower clamping member is arc-shaped, the center of curvature being at 13. 14 represents inwardly-inclined engaging surfaces upon the lower clamping member, and 15 is an opening therethrough to receive a packing-ring 16. 17 is an annular seat upon the upper clamping member 6, extending into the opening 15 and adapted to impinge upon the packing-ring 16 when the tap is in position upon the bushing. When the tap is disengaged from the bushing, members 6 and 7 occupy a position apart, and the packing-ring is held in position in the lower member by frictional engagement with the sides of the opening 15.

The bushing 18 may be secured in the head of the barrel or cask in the usual manner and is formed with a central cork-orifice 19, the lower portion of which is enlarged, as at 20. Surrounding the cork-orifice at its upper end is an annular seat, between which and the seat 17 the packing-ring 16 is compressed. The upper face of the bushing 18 is arc-shaped at 21, the center of curvature of which when the tap is in position is coincident with the center of curvature 13 of the lower face of the lower clamping member. The bushing is further formed with a raised portion 22, the side surfaces of which are sharply tapered and adapted to engage the surfaces 14 upon the lower clamping member, the two surfaces being of coincident conformation.

When it is desired to attach the tap to the bushing, the same is tilted so that the hinged end of the clamp will occupy a position in proximity to the bushing. The tap is then moved about the axis 13 to a vertical position, the engaging surfaces upon the bushing and the tap assuming the position shown in

Fig. 2. The wing-nut upon the clamping-bolt is screwed down to bring the clamping members together, which will compress the packing-ring 16 between the seats provided therefor.

In the modified construction shown in Figs. 5 and 6 the engaging surfaces upon the lower clamping member are outwardly inclined, while the complementary engaging surfaces upon the modified bushing are inwardly inclined, the seat for the packing-ring 16 being located at the bottom of the arc-shaped depression in the bushing.

In both the preferred and the modified construction shown any suitable clamping device may be employed to compress the packing-ring between the seat upon the upper clamping member and that upon the bushing.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a fluid tap and bushing, the combination of the tap formed with a hinged clamping member having an arc-shaped face, an opening through said clamping member, a packing-ring disposed in said opening, and engaging surfaces upon said clamping member; a bushing having an arc-shaped depres-

sion complementary to the arc-shaped face of the clamping member, and engaging surfaces thereon to cooperate with the aforesaid engaging surfaces, and means for drawing the clamping member and the tap into close relation, as and for the purpose set forth.

2. In a fluid tap and bushing the combination of a tap having the hinged clamping member 7, hinged at 8, and formed with an arc-shaped face, the clamping-bolt 9 to draw the clamping member and the tap together, the seat 17 formed upon the tap, the opening 15 in the clamping member, the packing-ring 16 disposed in the opening; the bushing having the arc-shaped depression 21 complementary to the arc-shaped face of the clamping member, and a seat for the packing-ring; and complementary engaging surfaces upon the clamping member and the bushing, as shown and described.

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

ALBERT KUMMERO.

Witnesses:

CARL H. KELLER,

CHAS. C. DEFENBAUGH.