

(No Model.)

2 Sheets—Sheet 1.

J. W. FARNOFF & G. J. STICHT.
BEER TAPPING DEVICE.

No. 584,863.

Patented June 22, 1897.

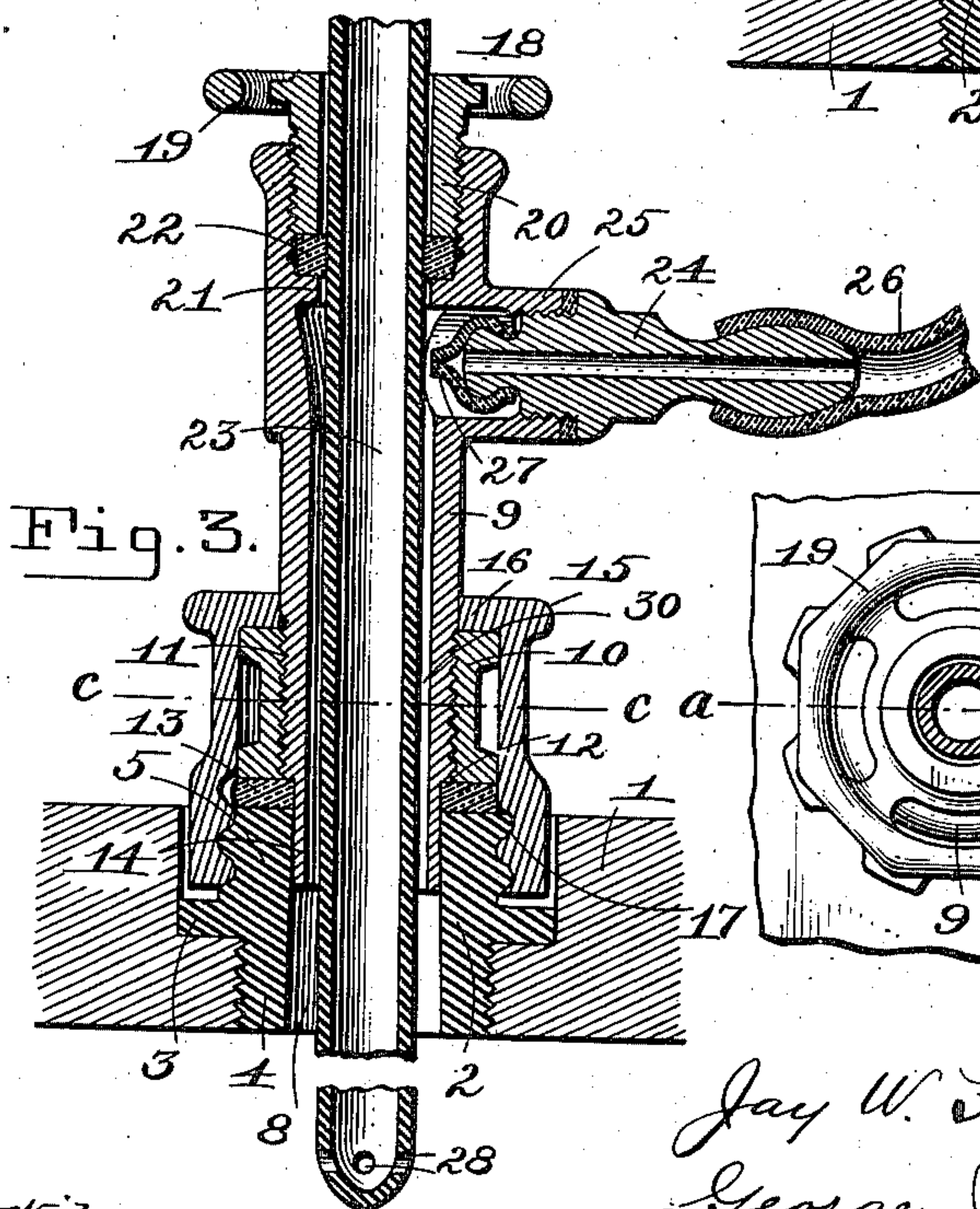
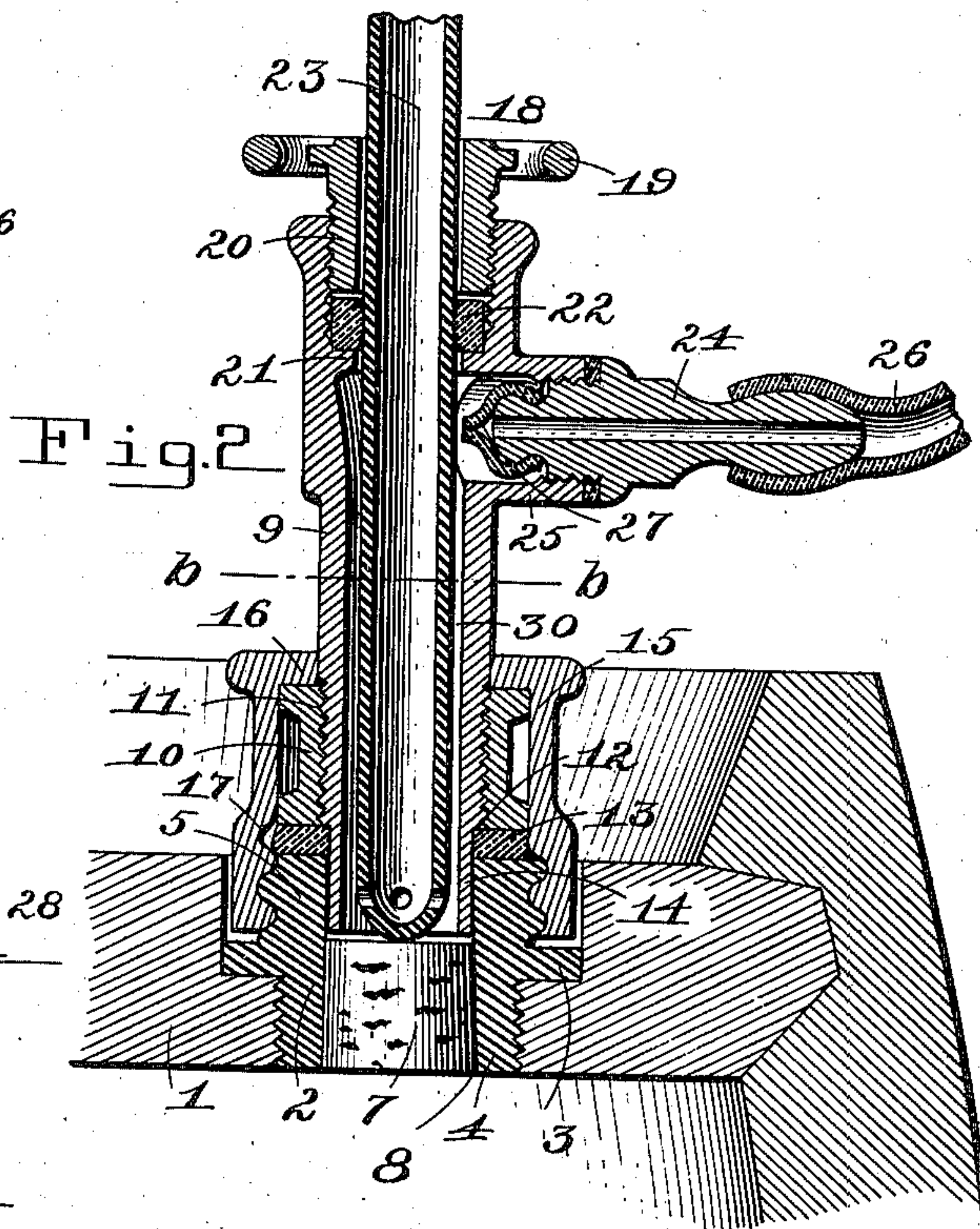
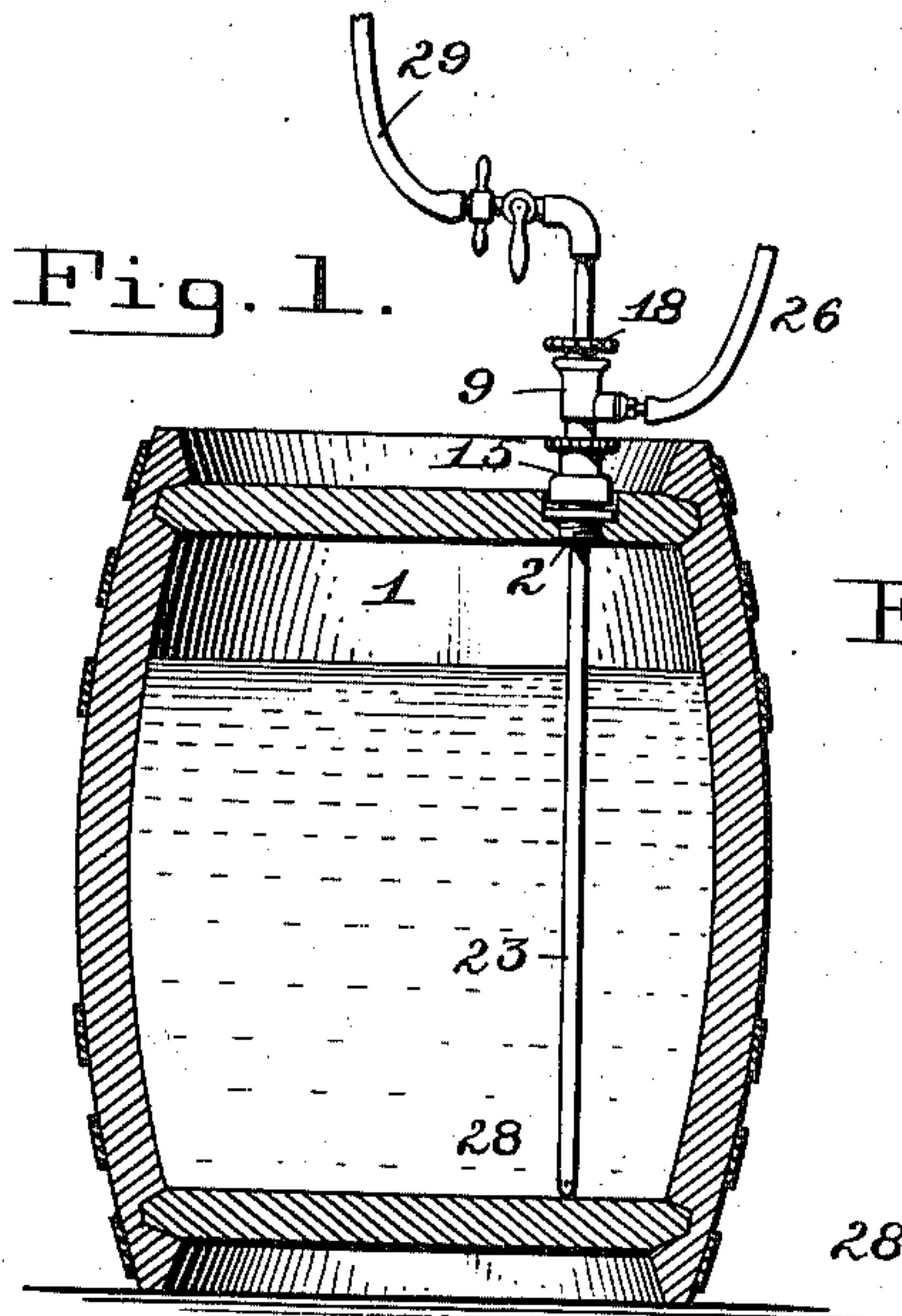
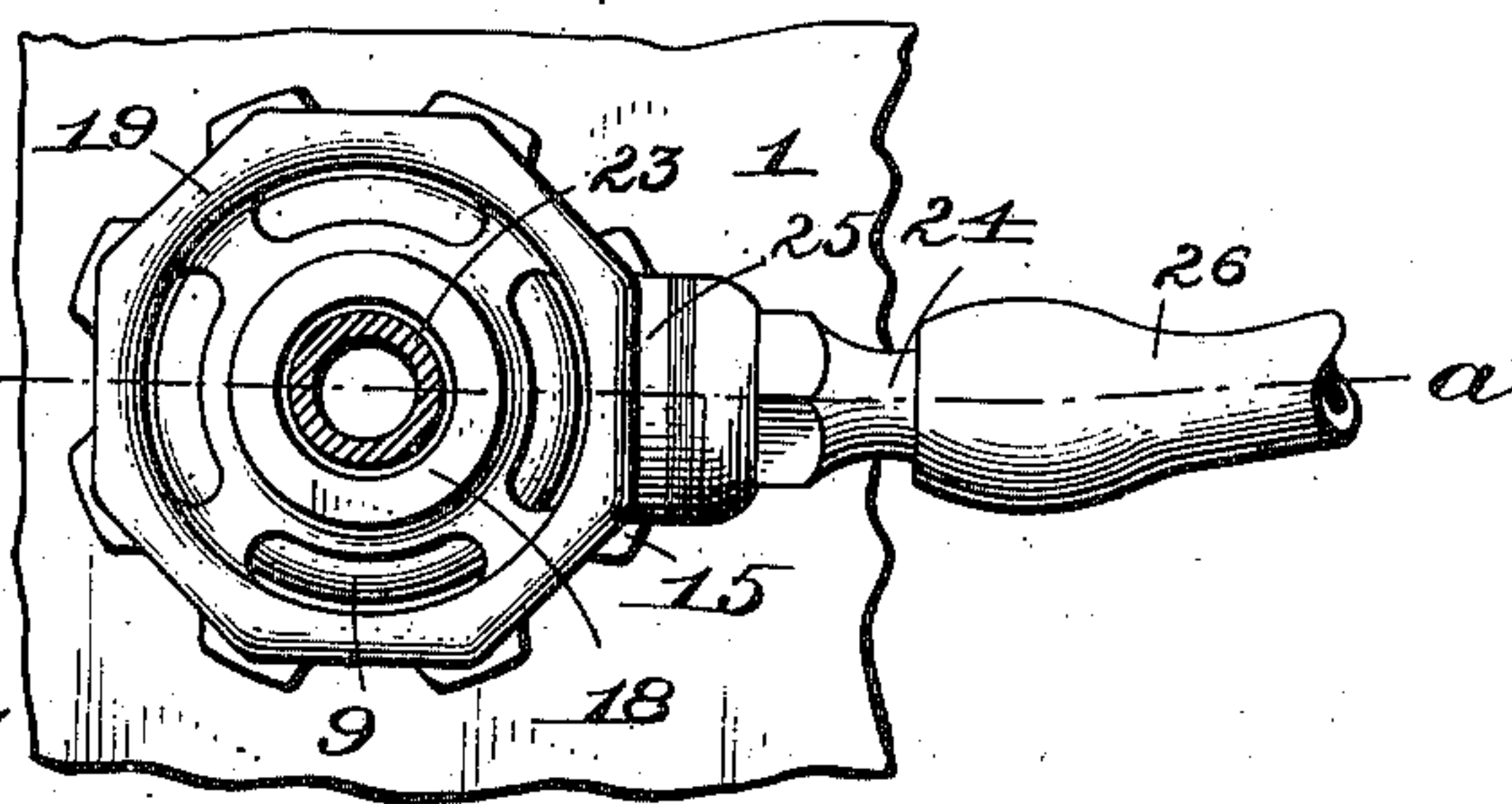


Fig. 4.



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Attorney.

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2 Sheets—Sheet 2.

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Fig. 5.

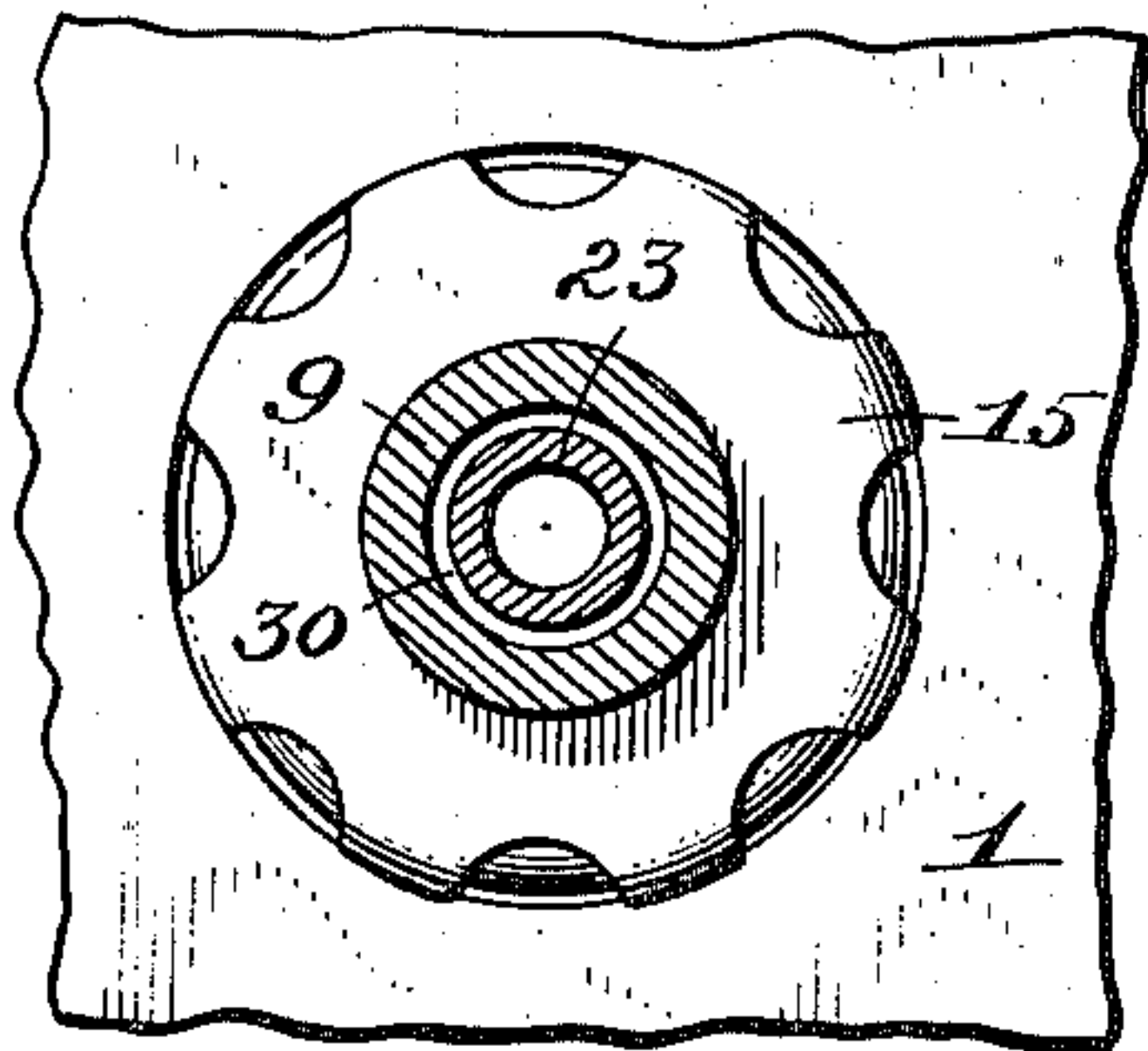


Fig. 6.

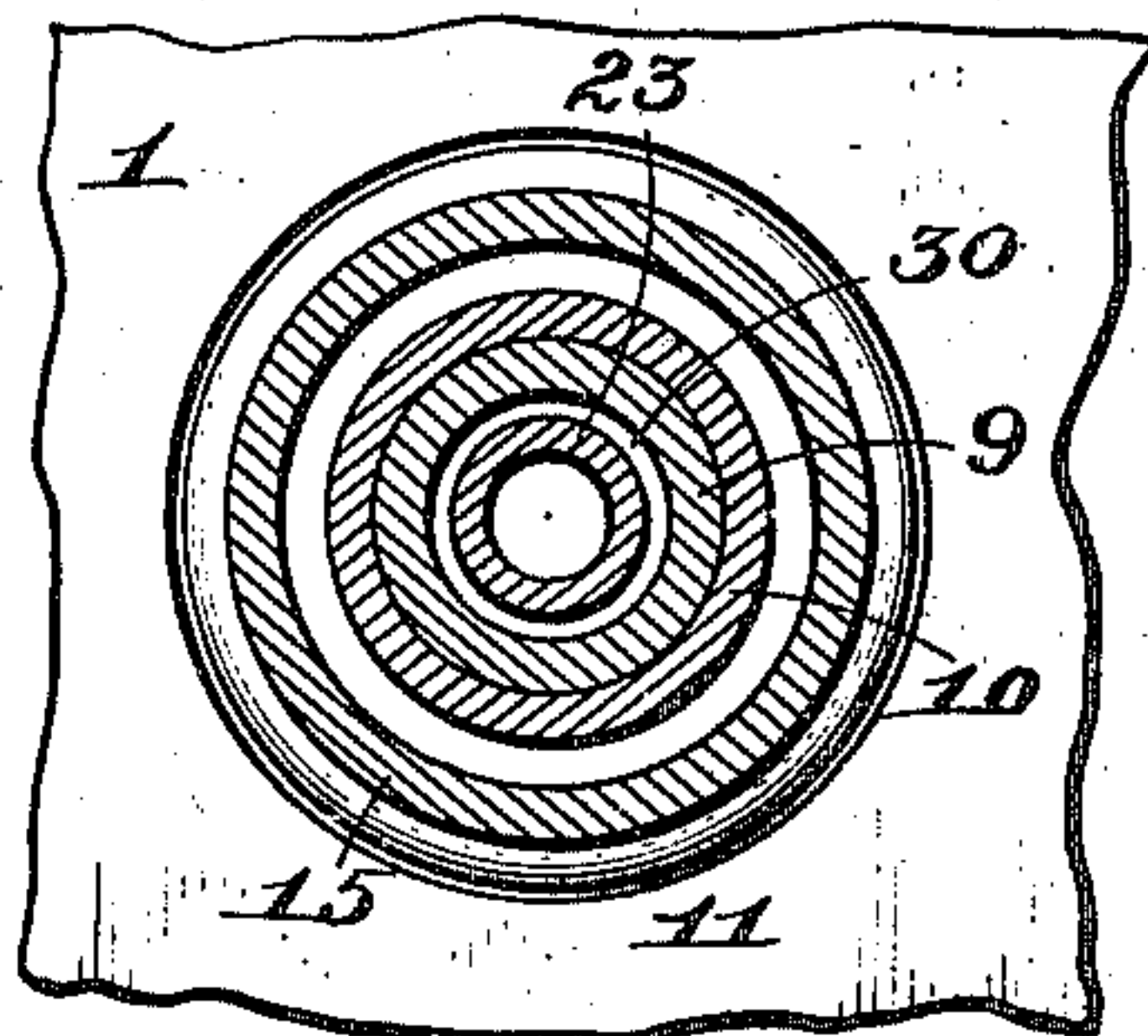


Fig. 7.

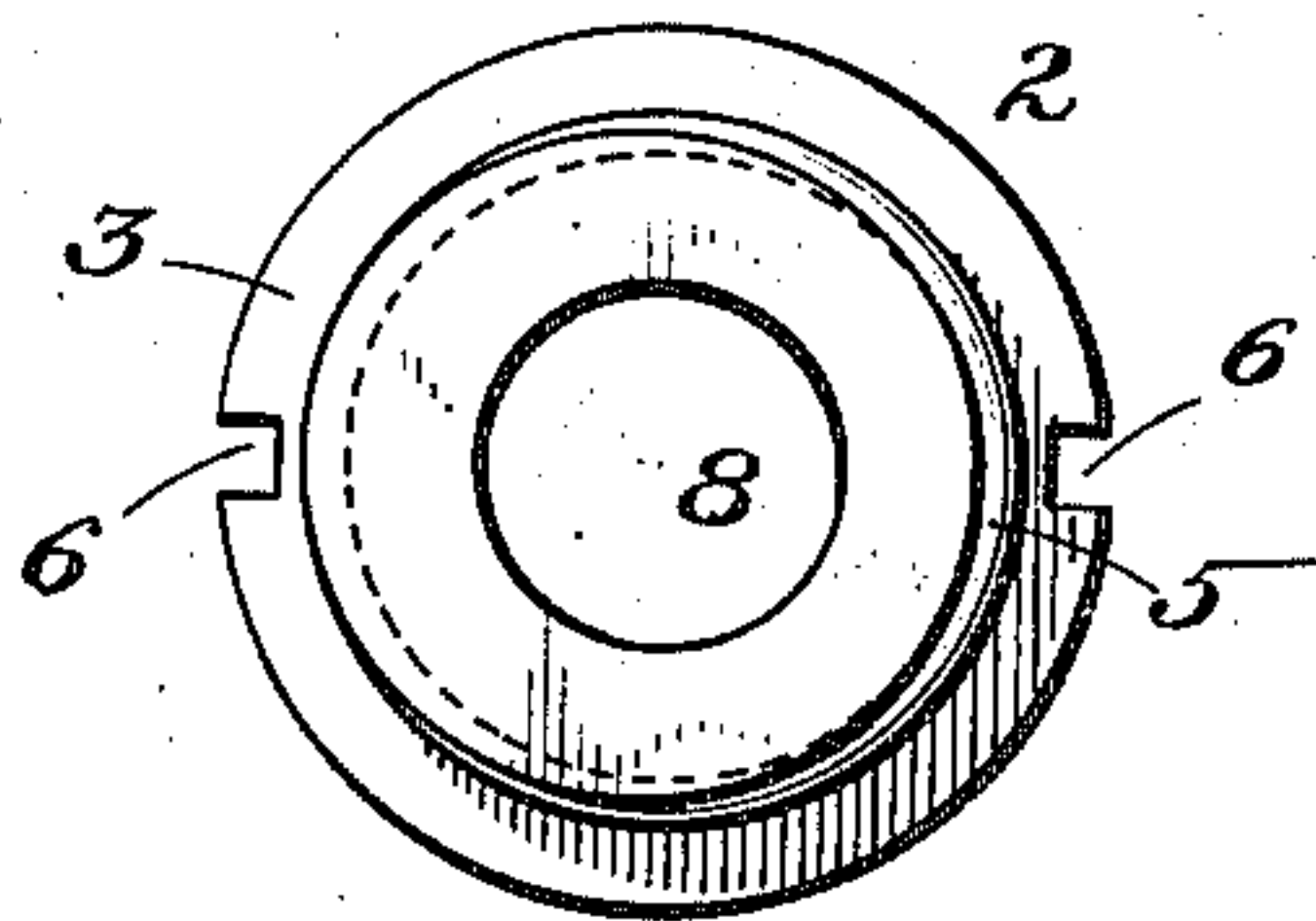


Fig. 8.

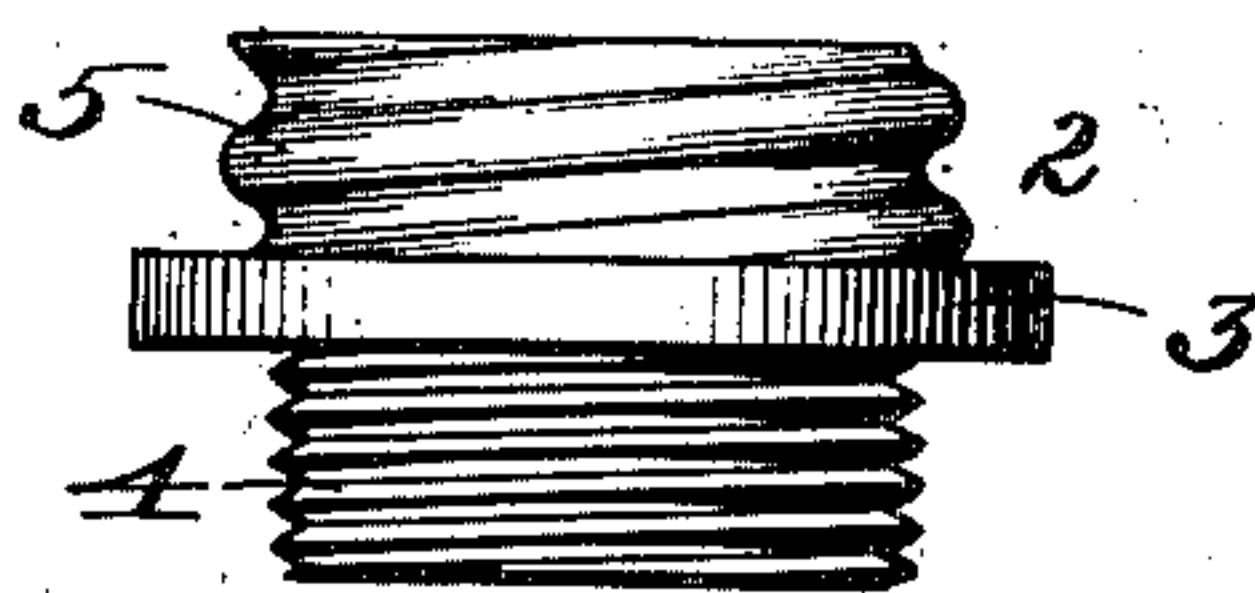


Fig. 9.

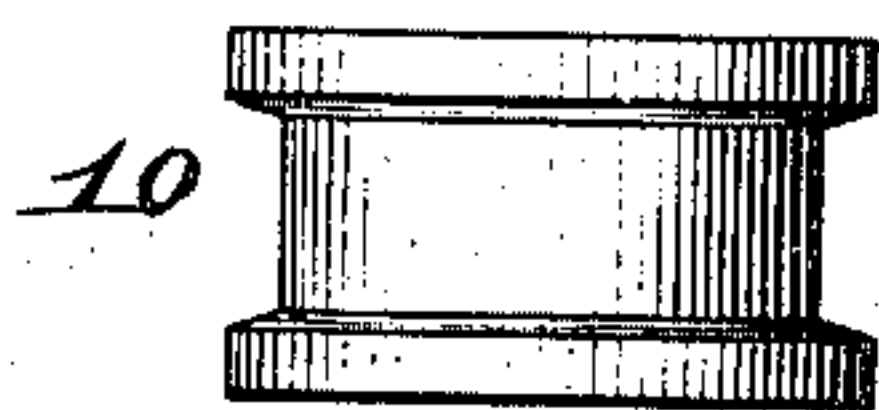
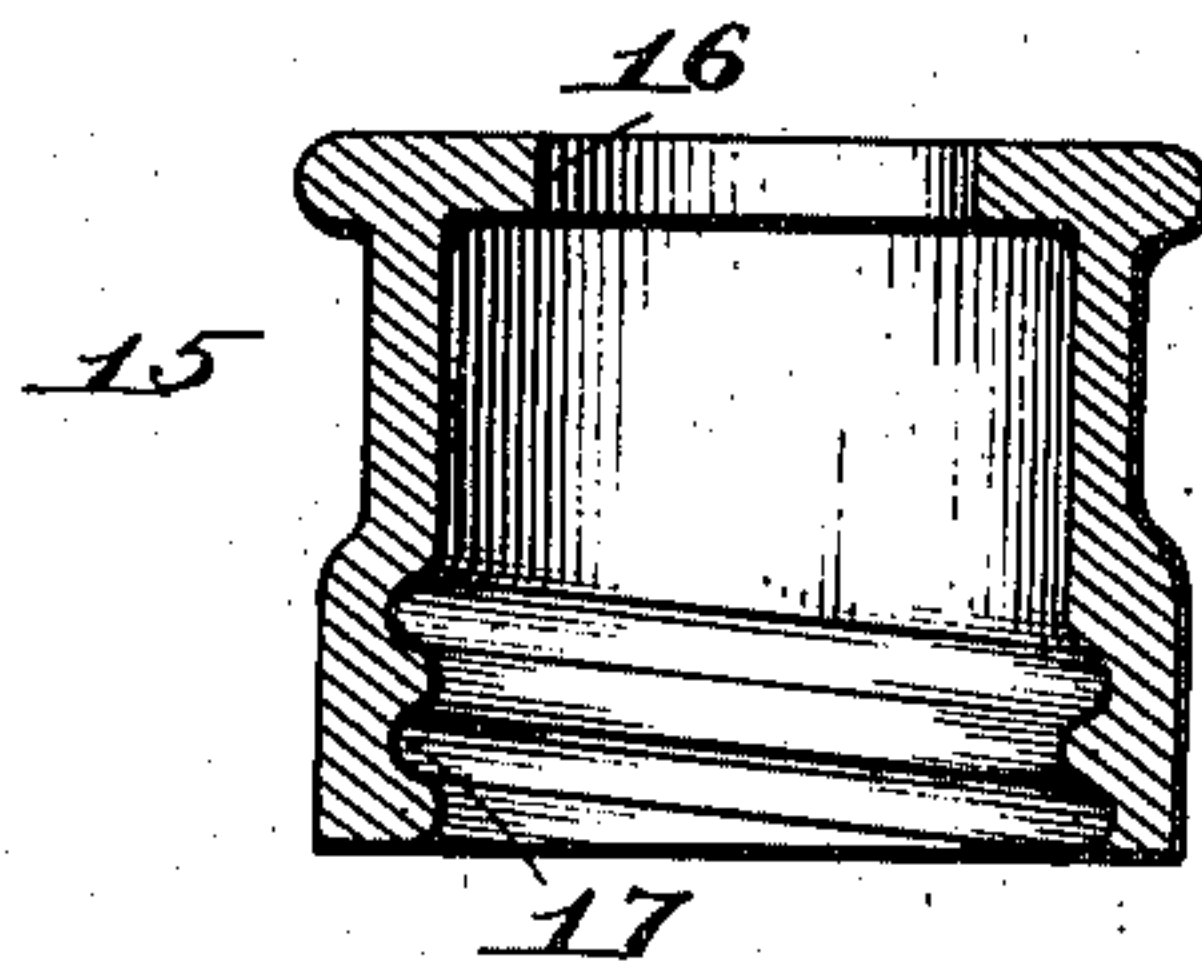


Fig. 10.



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UNITED STATES PATENT OFFICE.

JAY W. FARNOFF AND GEORGE J. STICHT, OF BUFFALO, NEW YORK.

BEER-TAPPING DEVICE.

SPECIFICATION forming part of Letters Patent No. 584,863, dated June 22, 1897.

Application filed September 28, 1896. Serial No. 607,189. (No model.)

To all whom it may concern:

Be it known that we, JAY W. FARNOFF and GEORGE J. STICHT, citizens of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Beer-Tapping Devices, of which the following is a specification.

This invention relates to a beer-tapping device in which a portion thereof is secured to the barrel or keg and adapted to be coupled or connected with a removable portion and used in connection with any form of air-pump or air-pressure device; and it consists in the construction and combination of parts, as will hereinafter more fully appear, and be set forth in the claims.

Our invention has for its object to produce an efficient tapping device which is simple and durable in construction, reliable in action, and which can be conveniently operated.

In the accompanying drawings, consisting of two sheets, Figure 1 is a central vertical section of a barrel provided with our improvements. Fig. 2 is a vertical section on line *a a*, Fig. 4, showing our device applied to a barrel, the draft-tube being in position to force the cork out of its seat. Fig. 3 is a similar section showing the bushing, tap, and draft-tube in working position. Fig. 4 is a top plan view of the device. Fig. 5 is a horizontal section on line *b b*, Fig. 2, cutting through the tap and draft-tube. Fig. 6 is a similar section on line *c c*, Fig. 3. Fig. 7 is a top plan view of the bushing. Fig. 8 is a side elevation thereof. Fig. 9 is a detached side elevation of the enlarged portion or bearing-sleeve which is removably secured to the sleeve of the tap. Fig. 10 is a central vertical section of the coupling-sleeve.

Like numerals of reference indicate corresponding parts in the several figures.

The numeral 1 represents a barrel in which the bushing 2 is secured. The latter is provided on its periphery with a flange 3. On each side of this flange are screw-threaded portions 4 5, the screw-threaded portion 4 being a sharp thread adapted to screw into the barrel or keg, while the threaded portion 5 is preferably a coarse thread which enters the coupling-sleeve of the tap, said coupling-sleeve being provided with an interior screw-thread corre-

sponding with the screw-thread on the portion 5 of the bushing, as will be hereinafter described. 6 represents notches provided for the purpose of entering a wrench and securing the bushing to the barrel. 7 is a cork which is seated in the bore 8 of the bushing. The barrel is recessed to receive the bushing, thereby presenting an even surface and avoiding all projecting parts which are liable to be damaged or broken.

9 represents a sleeve or casing, which is provided at its lower end with an enlarged portion 10, the latter being removably secured to said sleeve or casing by means of screw-threads 11, the lower end thereof being flush with a shoulder 12, formed on the sleeve or casing 9, and together constituting a wide shoulder against which the annular packing or washer 13 is adapted to bear, said packing or washer being set around the reduced portion 14 of the sleeve, which is adapted to enter the bore of the bushing.

15 represents a coupling-sleeve which is adapted to couple or secure the tap to the bushing. This sleeve is provided at its upper end with an inwardly-extending flange 16, which overlaps the upper end of the enlarged portion of the sleeve or casing 9. The lower end of this coupling-sleeve is provided with a screw-thread 17, which is adapted to screw onto the screw-threaded portion 5 of the bushing. By the construction as shown a coarse thread is provided at this point, thereby facilitating the coupling of the tap to the bushing.

The tap is forced against the bushing by means of the flange 16 of the coupling-sleeve bearing against the upper end of the enlarged portion of the sleeve, the packing or washer 13 being set between the tap and the bushing for the purpose of preventing the escape of air or gas from the barrel. By this construction the twisting and grinding on the washer or packing 13 is overcome, as the sleeve or casing 9, on which it sets, does not turn, the coupling-sleeve simply forcing it down on the bushing, thereby saving the packing from wear, as no twisting strains are applied thereto.

In order to place the coupling-sleeve in position on the sleeve or casing 9, the enlarged portion 10 of the latter is detached. The coup-

ling-sleeve is then set over the sleeve 9 and the enlarged portion 10 screwed to its place on the latter.

18 represents the tap-nut, which is provided with a hand-wheel 19 for easy manipulation and a screw-threaded portion 20. This nut enters the upper screw-threaded portion of the sleeve or casing 9.

21 is an annular flange which acts as a seat for the packing or washer 22, against which the tap-nut is forced. These parts constitute the stuffing-box. On tightening the tap-nut the packing or washer 22 is compressed against the draft-tube 23, which latter passes centrally through the tap and bushing and into the barrel or keg. This prevents the escape of gas or air through the upper end of the sleeve 9.

24 represents the air-hose nipple, which is screwed to a branch or stem 25 of the sleeve or casing 9, and 26 is an air-hose, which is secured to said nipple and adapted to be connected to an air-pump or air-pressure device for admitting air into the barrel.

27 is a check-valve attached to the inner end of the hose-nipple and is adapted for allowing the air to pass into the barrel and to prevent the escape of air or gas therefrom.

The draft-tube is provided at its lower end with holes 28, through which the beer or other liquid enters, the beer passing up under pressure through the draft-tube and beer-hose 29 to a faucet, (not shown,) from which the beer is drawn.

30 is an annular air-space surrounding the draft-tube 23 and through which the air entering through the hose-nipple and check-valve passes, the air passing down through the bushing and into the barrel, as is well known.

The operation of my device is as follows: The reduced portion 14 of the sleeve or casing 9 is set into the bore of the bushing, the coupling-sleeve is then screwed onto said bushing, thereby securely holding and connecting the latter and the tap together. The draft-tube is then inserted into the upper end of the sleeve or casing 9 and forced through the opening in the packing or washer 22 and down against the cork, enough pressure being exerted to force the cork from its seat, the draft-tube being then forced to the bottom of the barrel. The tap-nut 18 is then screwed against the packing or washer 22, thereby compressing the latter against the draft-tube and preventing the escape of gas or air from the sleeve or casing 9. The air under com-

pression now passes through the check-valve, annular space, and bushing and into the barrel, thereby forcing the beer or other liquid up through the draft-tube to any desired place.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination with the bushing, which is secured to the barrel and provided with a cylindrical bore, of a sleeve or casing provided with a stuffing-box in its upper end, a detachable enlarged portion near its lower end, an air-inlet intermediate of the two, and a reduced portion adapted to enter the bore of the bushing, a coupling-sleeve adapted to be secured to the bushing and couple the tap thereto, a draft-tube passing centrally through the sleeve or casing, and an air-space surrounding the draft-tube and communicating with the air-inlet and the barrel, substantially as set forth.

2. A bushing provided with an annular flange and screw-threaded portions each side of said flange, in combination with a sleeve or casing provided in its upper end with a stuffing-box, an enlarged portion near its lower end which is secured thereto by screw-threads, an air-inlet provided with a check-valve intermediate of the two, a coupling-sleeve having an interior screw-thread adapted to screw onto one of the screw-threaded portions of the bushing and secure the tap thereto, a washer or packing set between the bushing and the tap, a draft-tube passing centrally through the tap and bushing, and an annular air-space surrounding said draft-tube and communicating with the air-inlet and the barrel, substantially as set forth.

3. A bushing provided with an annular flange and screw-threaded portions each side of said flange, in combination with a sleeve or casing provided in its upper end with a stuffing-box, a detachable enlarged portion near its lower end, an air-inlet provided with a valve intermediate of the two, and a reduced portion adapted to enter the bushing, a coupling-sleeve having an interior screw-thread adapted to screw onto one of the screw-threaded portions of the bushing, and a washer or packing set between the bushing and the enlarged portion, substantially as set forth.

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