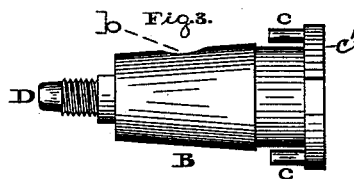
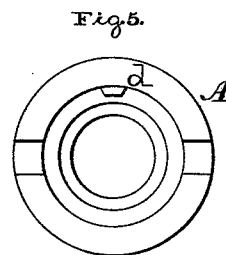
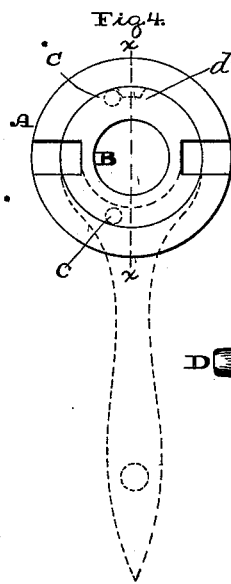
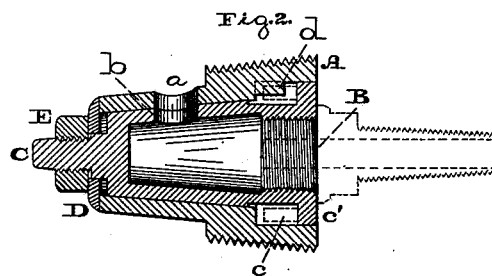
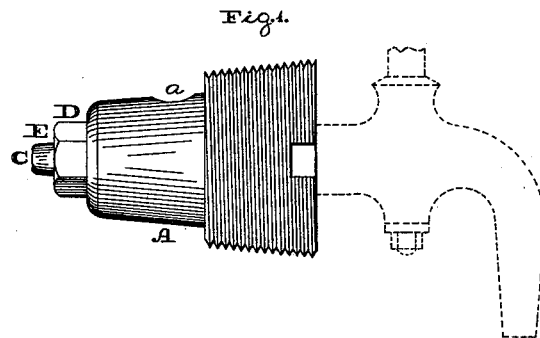


G. St. GEORGE.
Barrel-Tap.

No. 213,705.

Patented Mar. 25, 1879.



Witnesses:

W. P. Grant,

H. F. Kircher

Inventor:

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UNITED STATES PATENT OFFICE.

GEORGE ST. GEORGE, OF CAMDEN, NEW JERSEY.

IMPROVEMENT IN BARREL-TAPS.

Specification forming part of Letters Patent No. **213,705**, dated March 25, 1879; application filed January 31, 1879.

To all whom it may concern:

Be it known that I, GEORGE ST. GEORGE, of the city and county of Camden, and State of New Jersey, have invented a new and useful Improvement in Barrel-Taps, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation of the tap embodying my invention. Fig. 2 is a central longitudinal section thereof in line *x x*, Fig. 4. Fig. 3 is a side elevation of the plug of the tap. Fig. 4 is a front view of the tap. Fig. 5 is a front view of the bushing.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a bushing and a plug, which, journaled thereto, is adapted to permit the discharge of the fluid, the extent of rotation of the plug being limited by lugs, and the outer faces of the bushing and plug being flat or flush, whereby there are no projecting parts, the whole forming a simple, compact, and easily-operated tap, as will be hereinafter set forth.

Referring to the drawings, A represents the bushing, open at both ends, and having an exterior thread for attachment to a barrel or other vessel, and an opening, *a*, for communication with the interior of the vessel. B represents a hollow plug, which is open at one end, and fitted within the bushing, and provided with an opening, *b*, adapted to register with the opening *a* of the bushing. The closed end of the plug is threaded or formed with a threaded stem, C, which is passed through the inner end of the bushing, and on the same is fitted a washer, D, which rests against the adjacent wall of the bushing, and a nut, E, bearing against the washer, thus securing the plug to the bushing and permitting rotation thereof.

The inner face of the bushing A, near the front thereof, is enlarged, leaving a space within which play lugs or pins *c*, projecting inwardly from the head or flange *c'* of the plug B; and projecting from the wall of said space is a lug, *d*, against which the pins *c* are adapted to come in contact, the pins *c* and lugs *d* being so arranged and spaced that the

rotation of the plug is limited, so as at the proper time to cover and uncover the opening *a* of the bushing.

The bushing is provided at its outer ends with notches or openings for application of a proper key for screwing it to the barrel or vessel, and the plug may also be formed at its outer end, with notches or openings for application of a turning-key or other implement.

The inner face of the plug B is screw-threaded for attachment of a spigot or hose-connection, as shown in dotted lines, Figs. 1 and 2.

It will be seen that when the tap is in position the liquor may be discharged from the vessel by turning the plug until the openings *a b* are in communication. It then flows through said openings *a b* into the plug B, from whence it may be drawn off as desired.

By rotating the plug in opposite direction the opening *b* leaves the opening *a*, and the solid wall of the bushing covers said opening *b*, whereby the supply of liquor is cut off.

It will also be seen that while the head or flange *c'* covers the front space of the bushing A, it also incloses and conceals the lugs or pins *c d* and dirt reaching said space. This also leaves the front face of the bushing flat or flush throughout, so that when the tap is located there are no projecting parts which are liable to break or interfere with setting the barrel or vessel on its head.

I am aware that taps have been made of bushings and plugs, and otherwise variously constructed, wherefore I disclaim such feature, broadly.

The plug and bushing are securely connected, and the rotation of the plug is accomplished with ease. The plug may be readily removed from the bushing by unscrewing the nut E, and, if desired, it may be held in position by flanging its inner end or stem.

The several joints of the bushing and plug are flush or closed and tight to prevent leakage thereat.

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

1. The hollow bushing A, formed with the lug *d*, and having an opening, *a*, in combina-

tion with the hollow plug B, journaled to the bushing A, and formed with the head *c'* and the inwardly-projecting lug or lugs *c*, and having an opening, *b*, substantially as and for the purpose set forth.

2. The hollow bushing A, with opening *a*, in combination with the hollow plug B, with

opening *b* and screw-stem C, the washer D, and nut E, substantially as and for the purpose set forth.

GEO. ST. GEORGE.

Witnesses:

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