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PATENTED DEC. 26, 1905.

M. J. CHAPLIN.
TAP FOR BEER BARRELS.
APPLICATION FILED OCT. 5, 1903.

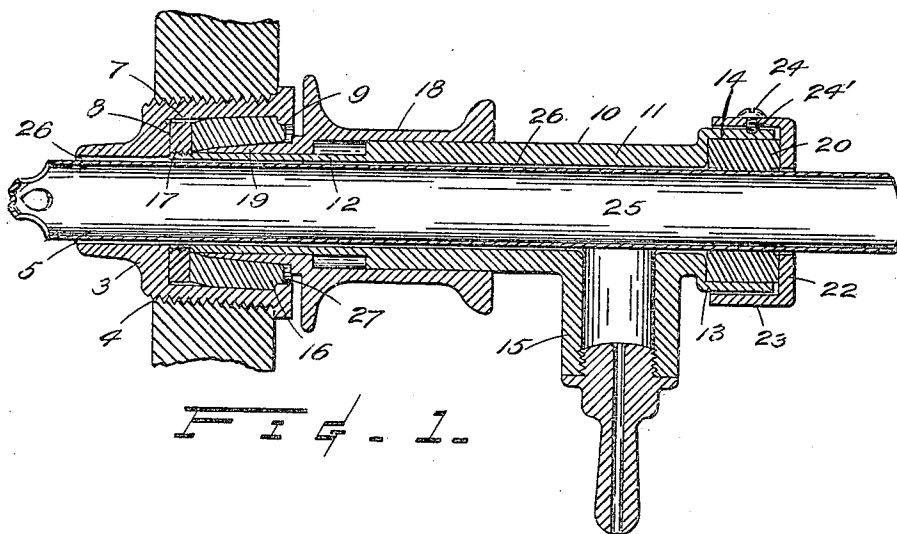


FIG. 1.

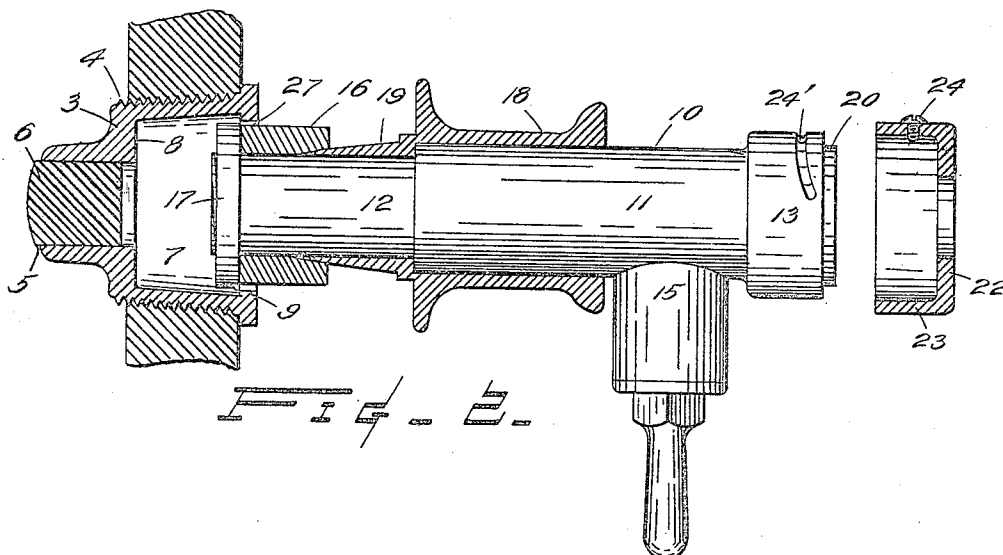


FIG. 2.

WITNESSES:

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TAP FOR BEER-BARRELS.

No. 808,195.

Specification of Letters Patent.

Patented Dec. 26, 1905.

Application filed October 5, 1903. Serial No. 175,808.

To all whom it may concern:

Be it known that I, MANLEY J. CHAPLIN, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Taps for Beer-Barrels, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to taps for beer-barrels; and it has for its object to provide a simple and inexpensive device of this character which can be reliably secured to a bung-socket in a most expeditious and convenient manner and coincidentally pack the several joints, so that there will be no leakage thereat.

With these and other objects in view the invention consists in certain details of construction and combination of parts, as hereinafter described, and pointed out in the claims.

In the accompanying drawings, where like numerals of reference indicate corresponding parts in both views, Figure 1 shows in longitudinal section a tap involving my invention assembled and attached to a bung-socket. Fig. 2 is a side elevation of the tap-casing with the sleeve, clamping-bushing, cap, and bung shown in section, the two last-named parts being detached.

In the said drawings, 3 denotes a bung-socket provided with external screw-threads 4, whereby it is permanently secured to a barrel, and having at its inner end a contracted opening 5 for the reception of a cork 6 when the device is not in use. The bung-socket is provided with an annular chamber 7, extending from a shoulder 8 intermediate its length to an internally-projecting collar 9.

10 is a hollow casing comprised of a middle cylindrical portion 11 and reduced and enlarged cylindrical ends 12 and 13, respectively, the latter of which is recessed, as at 14. The casing is provided between the said end portions with a boss 15, by which it is connected, by means of a tube, with a suitable pump, whereby air is forced through the casing by passages hereinafter referred to for charging the beer. Upon the reduced end 12 of the casing and adjacent to its extremity is an elastic bushing 16 of less diameter than the inside diameter of the socket-collar 9 and which is retained thereon in any suitable manner, such as by screwing a ring 17 upon the end of the casing. 18 is a sleeve having its major portion slidably mounted upon the external surface of the middle portion 11 of the casing and having a tapering or conical ex-

tension 19, the bore of which is of less diameter than the bore of said major portion of the sleeve, fitted and adapted to slide loosely upon the casing part 12, whereon is seated, as aforementioned, the elastic bushing 16. The shoulder formed by the bores of sleeve 18 and extension 19 engages the shoulder formed by the portion 11 and reduced end 12 of casing 10, thereby restricting the movement of sleeve 18 with respect to the casing, the ring 17 preventing disengagement of the sleeve at the opposite end thereof with relation to casing 10. An elastic annular bushing or washer 20 is fitted within the said recess 14 of the casing. A cap 22, provided with a cylindrical flange or rim 23, is adapted to fit loosely over the peripheral surface of the casing end 13 and forcibly bear against the washer 20, which extends outside the extreme end of the casing. This compressive action upon the washer is attained by means of a stud 24 passing through the cap-rim and engaging with a spirally-arranged groove 24' in the peripheral surface of the casing end 13.

25 is a draw-tube of less diameter than the bore of the casing and the bung-socket aperture, so as to provide annular space 26, communicatively connected with the air-supply tube for the admission of air into the barrel.

The operation of the invention is as follows: The end of the tap-casing upon which is seated the bushing 16 is inserted through the opening 27 of the bung-socket, so as to rest against the shoulder 8 thereof, when by pressing the sleeve 18 against the said bushing the tapering end 19 is forced into the same and the bushing is expanded diametrically to fill the cavity of the socket and prevent the withdrawal of the tap by reason of the inward-projecting collar 9 interfering with the passage of the expanded bushing. The draw-tube is then passed through the tap-casing and the bung-socket to dislodge the cork from the latter and be entered within the barrel, and it is clamped in operative position by the spreading of the bushing 20 through the action of the cap-stud when the same is given a partial rotation. The beer may now be drawn off through the draw-tube, which is suitably connected with a faucet.

It is apparent from the foregoing description, taken in connection with the drawings, that the said bushings will not only efficiently accomplish the functions for which intended, but that the greater the pressure exerted from within the barrel the greater will be the bind-

ing or clamping force of the bushings to overcome such results. Furthermore, the bushings not only provide clamping means, but likewise packings, which prevent the leakage of beer or air from every possible channel of exit. The tap is quickly inserted within its socket and may be as quickly removed.

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

1. In combination with a bung-socket having an internal projection, a casing having a reduced part forming a shoulder, a sleeve slidable on said casing and having a conical extension, the bore of which is of less diameter than the sleeve-bore and which receives the reduced part of the casing and thereby forms a shoulder to engage said casing-shoulder and restrict the outer movement of the sleeve during its sliding movement, a ring removably fixed on the reduced part of the casing to restrict the inward movement of the sleeve, an elastic bushing engaged in its bore by said conical sleeve extension, said bushing at its one end engaging said bung-socket projection, and at its opposite end engaging said ring, and by its compressive action on said sleeve extension preventing movement of the sleeve.

2. In combination with a bung-socket having an internally-projecting collar adjacent its

outer end, a casing having a reduced portion at one end forming a shoulder, the end of said reduced portion being threaded, a slidable sleeve having a bore to receive said casing, a conical extension carried by the sleeve and having a bore to receive said reduced portion of the casing, a shoulder formed at the junction of the sleeve-bore and the extension-bore for engagement with said shoulder of the casing to restrict the outward movement of the sleeve during its sliding movement, a ring threaded on said reduced portion of the casing to engage said sleeve extension and restrict the inward movement of the sleeve, an elastic bushing having its inward movement restricted by said ring, said conical sleeve extension engaging in the bore of the washer and when slid inwardly forcing the bushing outwardly into engagement with the bung-socket collar and said ring and being prevented from outward movement by the compressive action of said bushing, and a draw-tube projecting through the casing.

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

MANLEY J. CHAPLIN.

Witnesses:

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