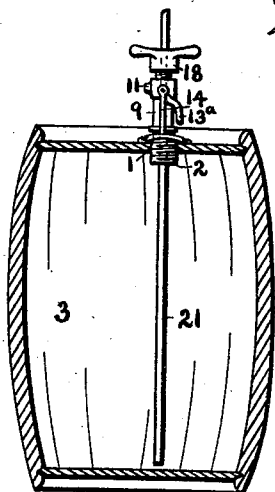
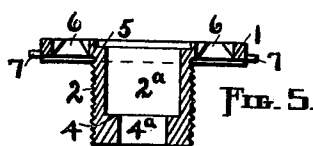
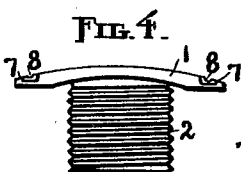
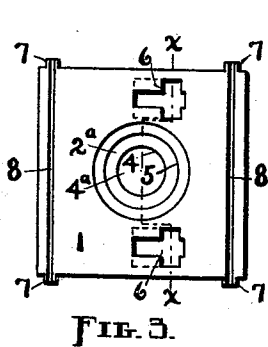
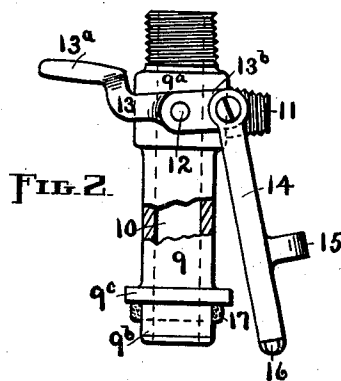
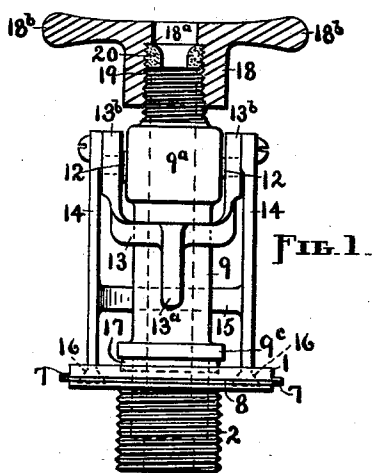


(No Model.)

F. SCHEIER.
BUNG ATTACHMENT FOR BARRELS.

No. 542,316.

Patented July 9, 1895.



WITNESSES:
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UNITED STATES PATENT OFFICE.

FRANK SCHEIER, OF MILWAUKEE, WISCONSIN, ASSIGNOR OF ONE-HALF
TO JOSEPH SCHULTE, OF CLEVELAND, OHIO.

BUNG ATTACHMENT FOR BARRELS.

SPECIFICATION forming part of Letters Patent No. 542,316, dated July 9, 1895.

Application filed November 30, 1894. Serial No. 530,353. (No model.)

To all whom it may concern:

Be it known that I, FRANK SCHEIER, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Bung Attachments for Barrels, of which the following is a full, clear, and exact description.

My invention relates to that class of bung attachments for use on kegs and barrels for beer and other liquids which are forced out of said barrels by means of air-pressure; and it consists of the several parts hereinafter fully set forth and described.

The object of my improvement is to provide an attachment for the purpose designated, which is easy and rapid in operation and lessens the liability of injuring the barrel. Heretofore it has been necessary to force in the plug or cork with a hammer or mallet, which operation often disables the barrel, and to use a wrench to fix the tube in place; but with my device no mallet and wrench are employed and the parts surrounding the bung-hole are at all times protected.

That my invention may be seen and fully understood by others reference will be had to the following specification and annexed drawings, forming a part thereof, in which—

Figure 1 is a front view of my attachment complete, the cap being in section; Fig. 2, a side view of the holder detached from the bung-plate without the cap; Fig. 3, a top view of the bung-plate; Fig. 4, a side view of said plate; Fig. 5, a sectional view of the same on lines *x x*, Fig. 3; and Fig. 6 a sectional view of a barrel with my attachment and the tube in position.

Similar figures of reference designate like parts in the drawings and specification.

The bung-plate 1 may be flat on the top, but is preferably convexed, as shown, and has the depending externally-threaded bushing 2, which screws into the bung-hole of the barrel 3, whereby said plate is held firmly against the head of said barrel. On the interior of the bushing 2, near the base, is the annular shoulder 4, below which appears the hole 4^a to receive the plug or cork. On the interior of the plate 1, centrally located near the top, is the annular shoulder 5, for the purpose

hereinafter explained. Between the shoulders 4 and 5 is the annular chamber 2^a, opening through the top of the plate 1 and into the hole 4^a below. Each side of the opening through the center of the plate 1 is the T-opening 6, extending entirely through said plate, the stem of said T-opening being undercut the same width as the cross portion. Projecting beyond each side of the plate 1 are the ears 7 7, and the opposite ears 7 are connected by the grooves 8 8, which extend across the top of said plate, front and back. The ears 7 and the grooves 8 are for the purpose of receiving and holding the rubber bands which are employed to retain the stamp in place in case the same should become unglued.

The holder 9 is cylindrical in its general form, externally screw-threaded at the top, and has the passage 10 extending entirely through the same.

Below the upper threaded end of the holder 9 is the externally-enlarged portion 9^a, from which projects the nipple 11 at the rear, having an internal passage connecting with the passage 10 at right angles. The nipple 11 may be threaded externally, as shown, internally, or not at all, and has connected therewith, when the device is in use, the end of a pipe (not shown in the drawings) leading to an air-pump. Extending from the sides of the enlarged portion 9^a are the trunnions 12 12, to which the bifurcated lever 13 is pivoted. The lever 13 terminates in front in the handle 13^a. To the ends 13^b 13^b of the lever 13, above or back of the trunnions 12, according to the position of said lever, are pivoted the upper ends of the uprights 14 14. The uprights 14 are connected by the curved band 15 a little below the center and back of the holder 9, and said uprights terminate at their bases in the lugs 16, which project both sides of each of said uprights. The lugs 16 are of the right length to enter the crosses of the T-openings 6, and the thickness of the uprights 14 corresponds with the width of the stems of said openings. The holder 9 is provided with the base 9^b and the flange 9^c, the latter being situated at the junction of said base and the main part of said holder. The diameter of the holder-base 9^b is a little less

than that of the bung-plate chamber 2^a. The washer 17, of rubber or other suitable yielding material, encircles the base 9^b below the flange 9^c.

5 The cap 18 has the internal threaded opening 19, the shoulder 18^a encircling an opening through the top of said cap and the handles 18^b 18^b. The washer 20, of rubber or other suitable yielding material, rests against
10 the under side of the shoulder 18^a.

The operation of my device is as follows: Supposing the plate 1 to be in place in the bung-hole of the barrel 3, as shown in Fig. 6, and a cork seated in the hole 4^a, elevate the
15 lever 13, insert the lower ends of the uprights 14 in the bung-plate T-openings 6 and the base 9^b of the holder 9 into the upper part of the chamber 2^a, with the washer 17 resting on the shoulder 5. Now press down the lever 13
20 by means of the handle 13^a, and the uprights 14 are drawn upward with their lugs 16 beneath the edges of the stems of the T-openings 6, since said uprights and said stems are centrally located, and the holder - flange 9^c
25 crowds down upon the washer 17, thus forming a tight joint between the holder 9 and the plate 1. Insert the tube 21 into the top of the cap 18, press it downward through the washer 20, the passage 10, and the chamber 2^a, force
30 the cork from the hole 4^a into the barrel 3, and when the lower end of said tube is near the bottom of said barrel screw down the cap 18 by means of the handles 18^b until said washer 20 is caused to snugly embrace said
35 tube, thereby forming a tight joint at that point. It will now be readily seen that by forcing air through the nipple 11 into the barrel 3 (which can be done, since the tube 21 is smaller than the passages through which it
40 passes and the washer 20 closes the opening at the top of the device) the contents of said barrel will be forced upward through said tube, as in the old way.

To remove the apparatus unscrew the cap
45 13 until the washer 20 releases its hold on the tube 21, draw out said tube, elevate the lever 18, which releases the holder 9, and disconnect said holder from the plate 1.

What I claim as my invention, and desire
50 to secure by Letters Patent, is—

1. In combination with an attachment for barrels, a holder flanged near the bottom and having a central vertical passage and a horizontal connecting passage opening through a
55 nipple, trunnions extending from said holder, a yielding washer below the flange on said holder, a bifurcated lever pivoted to said trunnions, uprights pivoted to the free ends of said lever and connected by a band, and lateral
60 lugs at the bases of said uprights, substantially as and for the purpose set forth.

2. In combination with an attachment for barrels, a holder having a central vertical passage and a horizontal connecting passage opening through a nipple, said holder
65 threaded at the top and provided with a flange near the bottom, trunnions extending from

said holder near said threaded end, a yielding washer below said flange, a bifurcated lever pivoted to said trunnions, uprights piv-
70 oted to the free ends of said lever and connected by a band, lateral lugs at the bases of said uprights, an internally threaded and shouldered cap adapted to engage the threaded end of said holder, and a yielding
75 washer below the shoulder in said cap, substantially as and for the purpose set forth.

3. In combination with an attachment for barrels, a bung-plate having a depending bushing internally chambered and shouldered
80 and adapted to engage the bung-hole of a barrel, lateral T-openings in said plate, and laterally extending ears on said plate connected by upper surface grooves, substantially as and for the purpose set forth.

4. In an attachment for barrels, a bung-plate having a depending bushing internally chambered and shouldered and adapted to be
90 secured to the bung-hole of a barrel, and lateral T-openings in said plate, in combination with a flanged holder having a central vertical passage and a horizontal connecting passage opening through a nipple, said holder
95 provided with a base adapted to enter the upper part of the chamber in said bung-plate bushing, a yielding washer arranged below the flange of said holder to form a tight joint between said plate and holder, a bifurcated
100 lever trunnioned to said holder and uprights connected by a band pivoted to the free end of said lever having lugs adapted to enter said T-openings and form a secure connection with said plate, substantially as and for the purpose set forth.

5. The combination, in an attachment for
105 barrels, of a bung-plate having a depending bushing internally chambered and shouldered and adapted to be secured in the bung-hole of a barrel, and lateral T-openings in said plate; a flanged holder externally threaded
110 at the top having a vertical passage and a horizontal connecting passage opening through a nipple, said holder provided with a base adapted to enter the upper part of the chamber in said bung-plate bushing, and a yield-
115 ing washer arranged below the flange of said holder to form a tight joint between said plate and holder, a bifurcated lever trunnioned to said holder, uprights connected by a band pivoted to the free ends of said lever having
120 lugs adapted to enter said T-openings and form a secure connection with said plate, and an internally threaded and shouldered cap adapted to engage the threaded end of said holder, with a yielding washer below the
125 shoulder in said cap arranged to snugly embrace a tube when said cap is screwed down, substantially as and for the purpose set forth.

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

FRANK SCHEIER.

Witnesses:

F. A. CUTTER,
JOS. SCHULTE.