Sept. 14, 1926. 1,599,685

C. SPAETH

COMBINED LOCK AND BUNG FOR STORING, SHIPPING, AND DISPENSING RECEPTACLES

Filed June 30, 1923

Fig. 1.

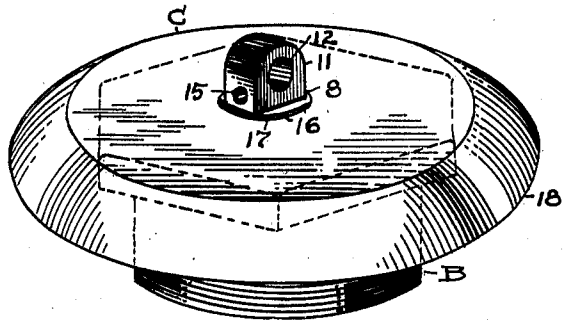


Fig. 2

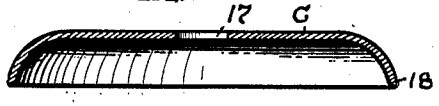


Fig. 3

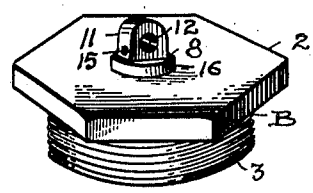


Fig. 4

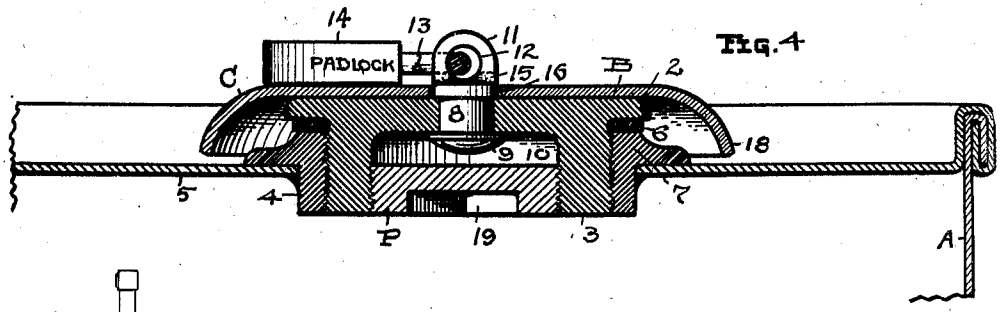


Fig. 5

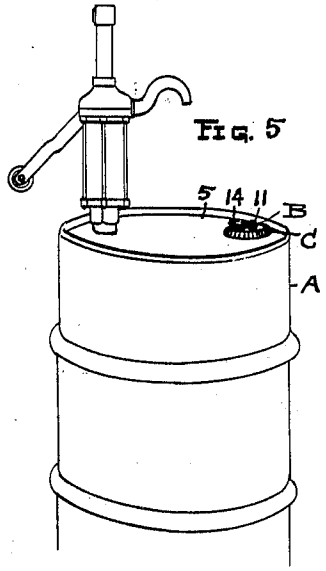
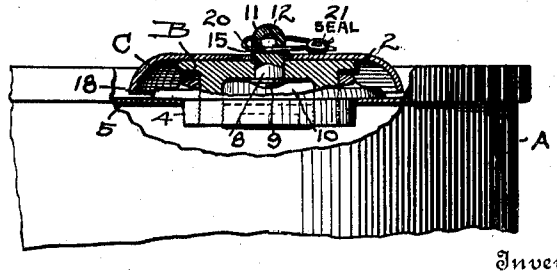


Fig. 6



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UNITED STATES PATENT OFFICE.

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COMBINED LOCK AND BUNG FOR STORING, SHIPPING, AND DISPENSING RECEPTACLES.

Application filed June 30, 1923. Serial No. 648,708.

My invention relates to an improvement in a combined lock and bung for barrels and containers, especially metal barrels or receptacles for storing and dispensing oil or other liquids, and my general object is to provide a bung or closure which may be readily and conveniently attached and detached and also safely and effectively covered and locked so that unauthorized removal of the bung and access to the interior of the barrel may be absolutely prevented. In the accompanying drawings Fig. 1 is a perspective view of my improved locking bung.

Fig. 2 is a sectional view of the locking plate for the bung.

Fig. 3 is a perspective view of the bung without the locking plate.

Fig. 4 is an enlarged view of a portion of the head of a steel barrel showing my improved locking bung in section and attached thereto.

Fig. 5 is a perspective view of a barrel equipped with a locking bung and a dispensing pump.

Fig. 6 is a side and sectional view of a portion of a receptacle with a bung attached and safeguarded by a seal.

My invention comprises a bung or removable closure member B having a flat top and flanged portion 2, which may be either hexagonal or other shape to permit a wrench to be engaged therewith. The cylindrical body portion 3 of the bung member may be hollow or open at its bottom and also screw-threaded internally and externally, and this member is adapted to be screwed into the screw threaded opening of a seating and connecting ring or collar 4 which is secured within the side wall or the head 5 of a steel barrel or other receptacle A, for example, a receptacle such as exemplified in the drawings. In use the hexagonal flange 2 of member B is adapted to overlap and compress a suitable sealing gasket 6 upon the raised seat 7 of collar or ring 4.

Affixed centrally to the top of the bung member is a stud 8, and this stud may be secured to the top by upsetting or riveting the bottom end 9 which protrudes into the bottom chamber 10. The upper projecting end 11 of the stud is rounded and provided with a relatively large eye or transverse opening 12 adapted to receive the hasp 13 of a padlock 14. A smaller opening 15 is also formed within stud 11 at right angles to opening 12, and this smaller opening is situated in a horizontal plane closely adjacent a round enlargement 16 opposite the top face of bung member B. Stud 8 may be immovably fixed to bung member B, but as shown herein said stud is free to swivel or turn within and upon the top of the bung member.

To prevent the removable bung member B from being gripped and engaged by a wrench or other instrument when such removal is not desired or wanted, I provide a dished plate or closing cover C for bung member B, and this cover has a central round opening 17 therein adapted to slip over stud 11, and the opening is preferably of a diameter adapted to snugly fit the round enlargement 16 when said cover is seated upon the top of the bung, substantially as shown in Fig. 4. When seated in this position the curved rim 18 of plate or cover C extends downwardly into close proximity to head 5 and encloses the bung member completely on all sides. The wrench-engaging flange 2 of member B is especially well covered and made inaccessible unless the plate or cover is completely removed. Thus when padlock 14 is secured by hasp 13 to stud end 11, it is impossible to lift or tilt plate C in any substantial degree or sufficiently to insert a wrench underneath to engage and rotate bung B. It is in this way that the bung is locked effectively against unauthorized removal. Neither can the bung be rotated by engaging or turning locking plate C because this plate is free to rotate around stud 11. Moreover, rotation of the bung can not be effected by engaging and turning stud 11 because said stud is free to rotate or swivel with the bung. However, it is a simple matter to gain access to the bung and engage it with a wrench when the padlock is disconnected from stud 11, because in that event the locking plate C may be bodily removed from the bung and the top of the bung completely exposed.

In many instances it is desirable that the barrel be effectively sealed and closed at all places therein, and to effect complete sealing at the bung where a swiveled connection is used for stud 11, I may insert a screw plug P into the hollow bottom end of the screw-threaded portion 3 of the bung, thereby closing and sealing chamber 10 into which the upset end of stud 11 protrudes and

in which it is free to turn independently of plug P. An angular or square-sided opening 19 may be formed within bottom end of plug P to permit a socket wrench to be engaged therewith. A sealing substance or compound may also be placed within chamber 10 if desired.

In Fig. 6 I show a wire loop 20 extending thru small opening 15 at the base of the eye-end of stud 11, and the meeting ends of this wire loop 20 are secured together by a lead seal 21 impressed or stamped in any suitable way so that when the seal is broken or tampered with, there may be visible evidence of the fact. The hasp of padlock 14 may also be inserted thru the larger opening 12 in stud 11 above wire loop 20 which passes thru the stud beneath the opening 12, and the bung member doubly safe-guarded from removal from the bung opening in the barrel.

What I regard as my invention, or discovery, and desire to claim, is:—

A combined bung and locking attachment for receptacles, comprising an apertured, screw-threaded bung, provided with a cavity on the inner side thereof, a cover on the outer side enclosing said bung, an aperture in said cover aligned with the aperture in said bung, a fastening means projecting through said apertures and freely rotatable in the bung, said fastening means provided with an eye portion on one end adapted to receive a locking device, and provided on the other end with an enlargement seated in the cavity of said bung, and a plug member closing the cavity in said bung, to prevent leakage through the aperture in said bung.

In testimony whereof I affix my signature.

CHARLES SPAETH.