H. MÜLLER.

Bung.

No. 204,595. Patented June 4, 1878.

Fig. 1.

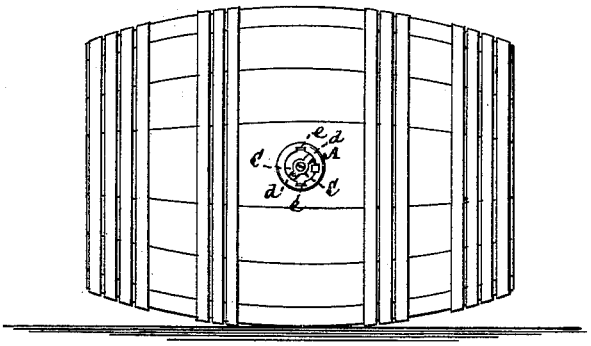


Fig. 2.

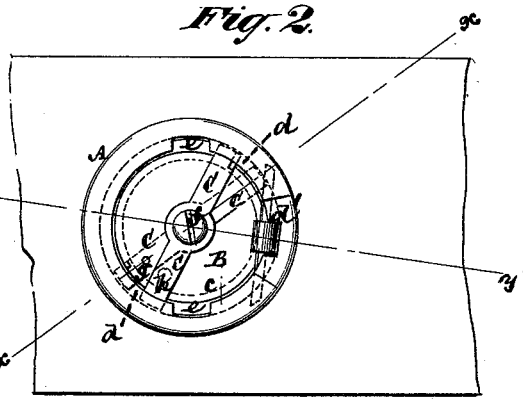


Fig. 5.

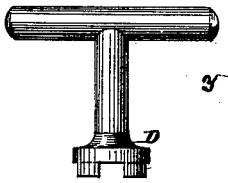


Fig. 6.

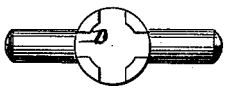


Fig. 3.

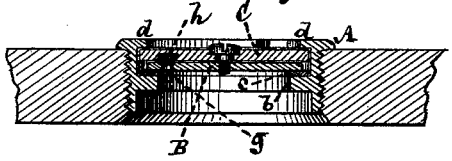
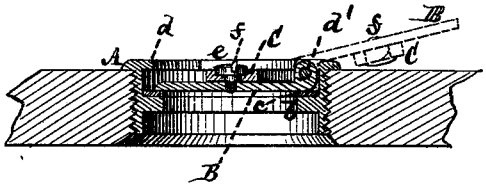


Fig. 4.



Witnesses

John Becker

Fred. Haynes

Inventor:

Hermann Müller

by his Attorneys

Brown & Allen

UNITED STATES PATENT OFFICE.

HERMANN MÜLLER, OF HOBOKEN, NEW JERSEY, ASSIGNOR TO SOLOMON L. COHEN, OF NEW YORK, N. Y.

IMPROVEMENT IN BUNGS.

Specification forming part of Letters Patent No. **204,595**, dated June 4, 1878; application filed May 14, 1878.

To all whom it may concern:

Be it known that I, HERMANN MÜLLER, of Hoboken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Bungs, of which the following is a description, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to the filling-bungs of casks or combined bungs and vents; and consists in various novel constructions and combinations of parts, in which the bung and a bung-socket, made principally of metal, have combined with them a pivoted bung-locking bar, that also serves to cover and uncover a vent through the bung without removing the latter.

Figure 1 represents a longitudinal view of a cask or barrel having my invention applied. Fig. 2 is an outside-face view, upon a larger scale, of the bung with its locking and vent devices, in connection with the stave of the barrel to which the bung is applied. Fig. 3 is a section of the same on the line *x x;* and Fig. 4 is a further section thereof on the line *y y*. Figs. 5 and 6 are side and front views, respectively, of a key used to lock and unlock the bung and to open or close the vent.

A is a metallic bung-socket, constructed to screw into the cask, and forming the filling-opening of the cask. Said socket is provided with an internally-projecting seat, *b*, which may be faced with a rubber or other soft and elastic packing, *c*, against which the bung or valve B, constituting the bung, bears and closely fits when closed. This valve or bung is here represented as a simple metallic disk, which may be altogether removable from the socket A, when required to open the latter, but which it is preferred to attach to the socket by a hinge-joint, *d'*, to prevent loss of the bung when opening the socket, and to facilitate the closing of the latter.

On the face of the socket A, or other part thereof outside of the seat *b*, are internally-arranged flange-sections *d d*, through which the bung is free to pass when being closed or opened. These flange-sections are constructed to form on their inner faces reverse incline planes for a portion of their length, and are separated from one another by openings *e* in the socket, through which the ends of a locking-bar, C, attached to the bung, are free to pass when opening and closing the bung. To this end, and to provide for locking the bung when closed, said bar C is pivoted, either by a rivet or screw, *f*, to the outside of the bung, so that it may be turned by a key, D, to bring the ends of the bar either in line with the openings *e* or to pass said ends under the locking flange-sections *d* of the bung-socket, accordingly as it is required to open or close and to lock or to unlock the bung. This locking-bar D is also made to form a vent opener and closer for admitting or shutting off air to the interior of the cask without opening or closing the bung. Thus the bung B has a vent-hole, *g*, through it, arranged so that when the bung is closed and the bar D is turned to fully lock the bung, as shown by dotted lines in Fig. 2, the vent *g* is closed by said bar; but when the bar D is partially turned back—not sufficiently so, however, to admit of the opening of the bung—then the vent *g* is open to the air. Such is the position of the locking-bar represented by full lines in Fig. 2.

To insure a perfect closing action of the vent *g* by the locking-bar D, the latter is, or may be, provided with a rubber or soft and elastic packing, *h*, arranged within a cavity in the inner side or face of the bar, and so as to cover or close the vent *g* when brought in line with it by the turning of the bar, as shown in Fig. 3.

The bar D may have a hole in it, to provide for venting by bringing the said hole opposite to the vent *g* without removing the bar entirely off the said vent; and said hole in the bar might be made to communicate by a pipe with a faucet so constructed as to provide for venting whenever the faucet is opened.

I claim—

1. The combination, with the bung-socket having a seat, *b*, for the bung and locking flange-sections *d d*, of a valve or bung constructed to open and close through or between said sections, and provided with a vent-hole,

g, and a locking-bar pivoted to the bung for operation in relation with the locking-sections of the bung-socket and the vent through the bung, substantially as specified.

2. The pivoted bung-locking bar C, provided in its face with a cavity containing a packing, *h*, in combination with the valve or bung B, having a vent, *g*, and the bung-socket A, substantially as shown and described.

HERMANN MÜLLER.

Witnesses:
HENRY T. BROWN,
FRED. HAYNES.