A. ZOLLER.
Bung for Cask.

No. 210,590. Patented Dec. 3, 1878.

Fig. 1.

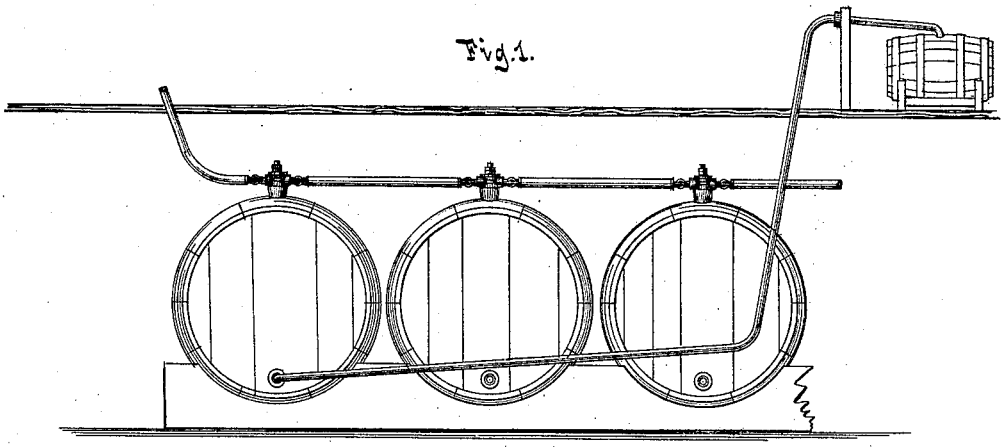


Fig. 2

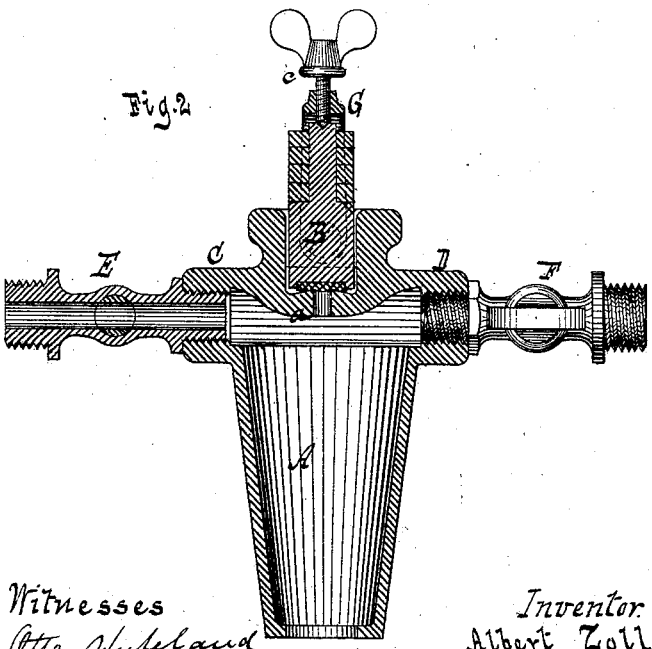
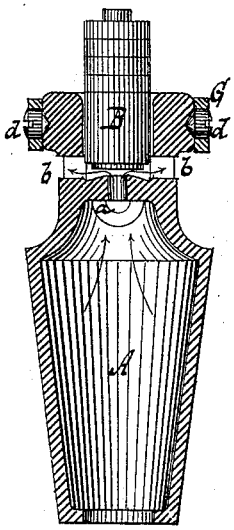


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

ALBERT ZOLLER, OF HOBOKEN, NEW JERSEY.

IMPROVEMENT IN BUNGS FOR CASKS.

Specification forming part of Letters Patent No. **210,590**, dated December 3, 1878; application filed November 19, 1878.

To all whom it may concern:

Be it known that I, ALBERT ZOLLER, of Hoboken, in the county of Hudson and State of New Jersey, have invented a new and Improved Attachment to Bungs for Casks, which invention is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 shows a series of casks, each provided with my bung, and severally connected together by means thereof. Fig. 2 is a longitudinal central section of my bung. Fig. 3 is a cross-section thereof.

Similar letters indicate corresponding parts.

The object of my invention is to produce a bung which, when applied to a cask containing beer or other similar liquid, allows the surplus gas to escape therefrom, and through which air under pressure can be admitted to the cask for discharging the liquid.

It consists in the combination, with a bung having a hollow body, of a safety-valve, arranged on the top part thereof, and one or more branch pipes having stop-cocks, and communicating with the interior of the hollow body, so that when this bung is applied to a cask containing beer or other similar liquid a portion of the gas formed therein is permitted to escape, when it exceeds a certain pressure, through the safety-valve, while air can be forced into the cask to discharge the liquid through the branch pipe or pipes; also, in combining with the parts named a device for fastening down the safety-valve during the time air is injected into the cask.

In the drawings, the letter A designates the hollow body of my bung, on the upper part of which is arranged a safety-valve, B, and from which project two (more or less) branch pipes, C D, each having a stop-cock, E or F.

In the example shown, the safety-valve B consists of a plug, from which rises a stem carrying suitable weights, and which rests on a perforated diaphragm, *a*, formed in the upper part of the hollow bung-body.

Immediately above the diaphragm *a* in the hollow bung-body A are formed openings *b*, so that when by the pressure of the gas generated in the cask to which my bung is applied the plug B is lifted from the perforated diaphragm, the gas escapes through said openings. The safety-valve, however, can be constructed and arranged in other ways.

My bung is especially intended for use on casks in which beer is stored in breweries, and from which the kegs are filled.

It will be seen that by the safety-valve B any surplus gas is allowed to escape from the cask on which my bung is used, while the branch pipe C or D permits of injecting air into the cask for discharging the liquid at the tap-hole.

During the time air is injected into the cask through the pipe C or D the safety-valve B should be held down; and to facilitate the accomplishment of this purpose I attach to the hollow bung-body A a yoke, G, carrying a set-screw, *c*. This yoke G swings on pivots *d*, affixed to the sides of the bung-body, and the set-screw *c* is arranged on the central part of the yoke, so that while the latter can be swung down to clear the safety-valve, the same, when moved to a vertical position, brings the set-screw to a position for clamping the valve, as shown in Fig. 2.

Other devices, however, can be substituted for said yoke and screw, according to the construction of the safety-valve, or a load of sufficient gravity can be placed on the safety-valve in lieu thereof.

The advantage of providing my bung with two branch pipes, C D, is, that a connection can thus be made of the pump or other air-forcing apparatus used with a series of casks, as shown in Fig. 1—namely, without connecting the pump to the bung of each cask separately; but I do not wish to be restricted to the use of two branch pipes.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a bung having a hollow body, of a safety-valve, arranged on the top part thereof, and one or more branch pipes communicating with the interior of the bung-body, all adapted to operate substantially as shown and described.

2. The combination, with a bung having a hollow body, of a safety-valve, a device for fastening down said safety-valve, and one or more branch pipes communicating with the interior of the bung-body, all adapted to operate substantially as shown and described.

In testimony that I claim the foregoing I hereunto set my hand and seal this 14th day of November, 1878.

ALBERT ZOLLER. [L. S.]

Witnesses:
W. HAUFF,
CHAS. WAHLERS.