

J. F. APPLGATE.
BUNG.

No. 104,244.

Patented June 14, 1870.

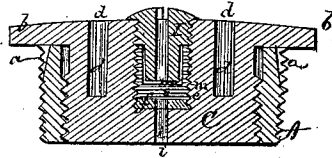


Fig. 2. Fig. 3.

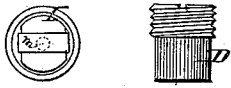
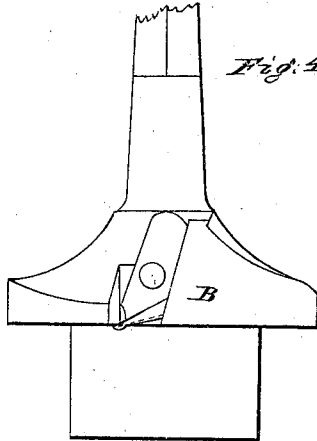


Fig. 4.



Witnesses

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JOSEPH F. APPLGATE, OF NEW ALBANY, INDIANA.

Letters Patent No. 104,244, dated June 14, 1870.

IMPROVEMENT IN BUNGS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOSEPH F. APPLGATE, of New Albany, in the county of Floyd and in the State of Indiana, have invented certain new and useful Improvements in Bungs; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a bung for beer-barrels, casks, &c., as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal vertical section of my bung.

Figure 2 is an end view of a perforated screw-plug used in my bung.

Figure 3 is a side view of a solid plug which may be substituted for the perforated plug shown in figs. 1 and 2.

Figure 4 is a side view of a device for cutting the bung-staves for the bung.

A represents a metal ring, of suitable size, provided with screw-threads both on the inner and outer sides. This ring is screwed into the stave of a barrel so deep that its upper end shall be far enough below the outer surface of the stave that the bung may be countersunk in the stave and flush with its outer surface.

The ring A being thus inserted, the wood around its outer edge is cut out by the auger-bit B, represented in fig. 4, said bit being of the same size as the cap of the bung, or rather of the circular flange projecting from the bung.

In the outer periphery of the ring A are one or more notches, as shown at *a*, in fig. 1, for the insertion of one or more nails, which will then be partly in the ring and partly in the stave, and thus prevent the ring from turning around with the turning of the bung.

The bung C is constructed, as shown in fig. 1, with screw-threads fitting in the threads on the inner side of the ring A, and has a circular projecting flange, *b*, projecting around its outer end, which flange fits in the countersink formed by the auger B, and thus forms an even surface with the outside of the stave. It is also provided with wrench-holes *d d*.

In the center of the bung C is a circular opening, *c*, provided with female screw-threads, said opening extending from the outside a suitable distance inward, and from the bottom of this opening is a hole, *i*, through the remainder of the bung. In the bottom of the opening or recess *e* is placed a lead packing, *f*, with a hole in the center corresponding with the hole *i*.

The opening or recess *e* is closed by means of solid screw-plug D, by the brewer, for shipment, said plug coming down onto the lead packing *f*, making the bung perfectly air and gas-tight.

When the barrel is to be tapped the plug D is removed, and the plug I substituted, said plug not reaching down to the lead packing.

The plug E is perforated with a hole through the center, and its inner end is bound with a rubber band, *m*, covering the inner end of the said hole. By this means the necessary amount of air is admitted into the barrel, while none of the gases can escape through the bung.

Where a barrel of beer is emptied soon, say in one day, the rubber band may be dispensed with. Thus the solid plug D is used by the brewers, and the perforated plug I by the retail dealers.

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

The combination of the ring A, bung C, and plug I, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 23d day of May, 1870.

JOSEPH F. APPLGATE.

Witnesses:

A. H. MARR,
C. L. EVERT.