(No Model.)

# D. W. C. VAN SLYCK.

## Bung Spout.

**No. 243,014.** **Patented June 14, 1881.**

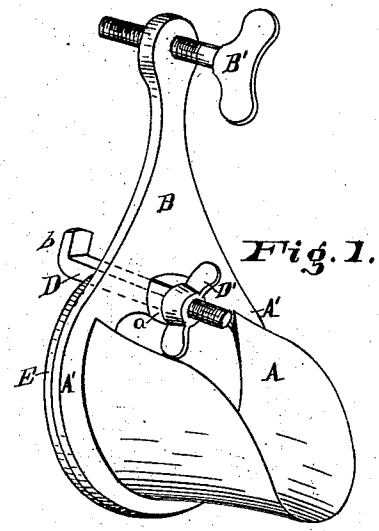


Fig. 1.

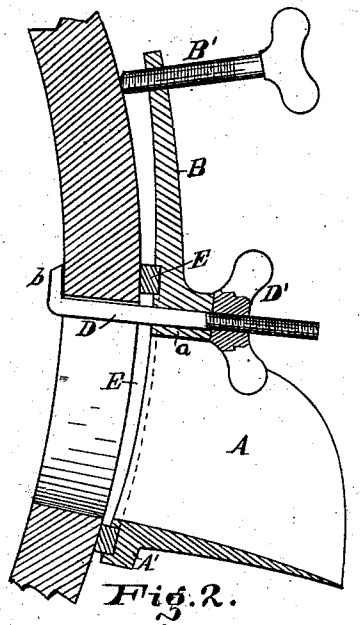


Fig. 2.

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# UNITED STATES PATENT OFFICE.

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## BUNG-SPOUT.

SPECIFICATION forming part of Letters Patent No. 243,014, dated June 14, 1881.

Application filed November 15, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, DE WITT C. VAN SLYCK, of the city of Cincinnati, in Hamilton county, and State of Ohio, have invented certain new and useful Improvements in Bung-Spouts, of which the following is a specification.

The object of my invention is to provide a device through the agency of which liquid may be poured from the bung-hole of a barrel or cask without slopping; and it consists of a spout to be applied to the exterior of the barrel or cask, said spout being provided with clamping-bolt and adjusting device, by which it may be adapted to casks of various sizes and held securely in position, preventing any leakage between the spout and the face of the cask.

In the drawings, Figure 1 is a perspective view of my invention; Fig. 2, a central vertical section through same, showing it attached to a portion of a cask.

A is the spout, the inner end of which is provided with the ring A′. This ring is provided with the upwardly-extending arm B, through the upper end of which passes the thumb-screw B′. The ring A′ is also provided with the inwardly-projecting lug *a*, which is perforated for the passage of the clamping-bolt D. This bolt D is provided at its inner end with a hook, *b*, and on the outer end is cut a screw-thread, and on said outer end is screwed the thumb-nut D′. The shank of the bolt D, which passes through the lug *a*, is preferably square, to prevent its turning in the opening through said lug.

Extending entirely around the inner face of the ring A′ is a rubber or other elastic packing, E, which fits into a channel in the face of the ring, as shown. The purpose of thus extending the packing around the bung-hole is to prevent the liquid from leaking through between the bung-hole and the upper part of the spout. This channel is wider at the bottom than at the top, for the purpose of retaining the packing in place in the channel after being introduced therein.

The manner in which my invention operates is as follows: The bung having been withdrawn from the barrel or cask to be emptied, the inner face of the ring A′ is applied to the face of the cask around the bung-hole, the inner end of the bolt D passing through the bung-hole, and the hooked extremity *b* impinging against the inner face of the stave, as shown in Fig. 2. The thumb-screw B′ may now be used, if necessary, to elevate or depress the arm B, and thereby causing the packing to lie evenly on all sides against the surface of the cask around the bung. The thumb-screw D′ is then to be tightened until the packing E fits tightly against the cask around the bung-hole. The cask may now be rolled over, and the liquid will run out and may be conducted into any suitable vessel by the spout A, and none of the liquid will run down the face (*i. e.*, outer surface) of the cask. If the cask remains on the floor, the end of the spout A will strike the floor or the vessel into which the liquid is being drawn before the cask is entirely emptied of its contents. The cask, if too heavy to lift easily, should then be turned on one end, which can easily be done, and the spout turned one-quarter around, so that the top or open part of the spout will look up. The cask is now to be tilted on its chine, the spout being over the vessel, and nearly all of the liquid will run out, and the cask will become so light by being emptied of the greater part of its contents that it can easily be lifted to allow the remainder of the liquid to run out. I am thus enabled to withdraw the entire contents of the barrel or cask without spilling or slopping.

It will readily be understood that by the construction and arrangement above described my device may be readily and quickly adapted to casks of any size, and having a bilge of any convexity and having staves of any thickness, and still prevent any leakage.

While the above-described construction shows the preferable form of my invention, it may be variously modified and still fall within the scope of my invention.

The arm B need not necessarily be of the exact form here shown, as will be obvious to the manufacturer.

Heretofore when an open spout has been used a description of packing of a horseshoe shape has been employed between the edge of the bung-hole and the back of the spout.

In practice it is found that when the barrel is full some of the liquid in the barrel in running out overflows the ends of this packing, and, coming out between the back of the frame

of the spout and the barrel, runs down the outside of the latter and is wasted. The annular packing E, extending entirely around the bung-hole and between the barrel and the spout, with its frame, obviates all such leakage, and compels all of the liquid to flow directly into and out through the spout.

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

1. The combination of a bung-spout provided with a ring, A′, and arm B, the latter rigidly connected to the said ring, adjusting-screw B′, the clamping-bolt D, and an elastic packing, E, substantially as and for the purposes specified.

2. The combination of a bung-spout provided with a ring, A′, elastic packing E, bolt D, provided with single hook *b*, rigidly attached to and part of said bolt, and adapted to engage with that portion only of the interior of the barrel which is opposite the upper side of the spout, and further provided with a screw-thread and tightening-nut, D′, the bolt D passing through the upper portion of the ring A′, and the tightening-nut being arranged to engage the front face of said ring, substantially as and for the purposes specified.

3. The combination of a bung-spout provided with ring A′, packing E, bolt D, provided with single hook *b*, rigidly attached to and forming a part of said bolt, and adapted to engage with that portion only of the interior of the cask which is opposite the upper side of the spout, and a device for clamping the edge of the cask between the hook *b* and ring A′, said device being arranged to draw the bolt D in the direction of its length, substantially as and for the purposes specified.

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