

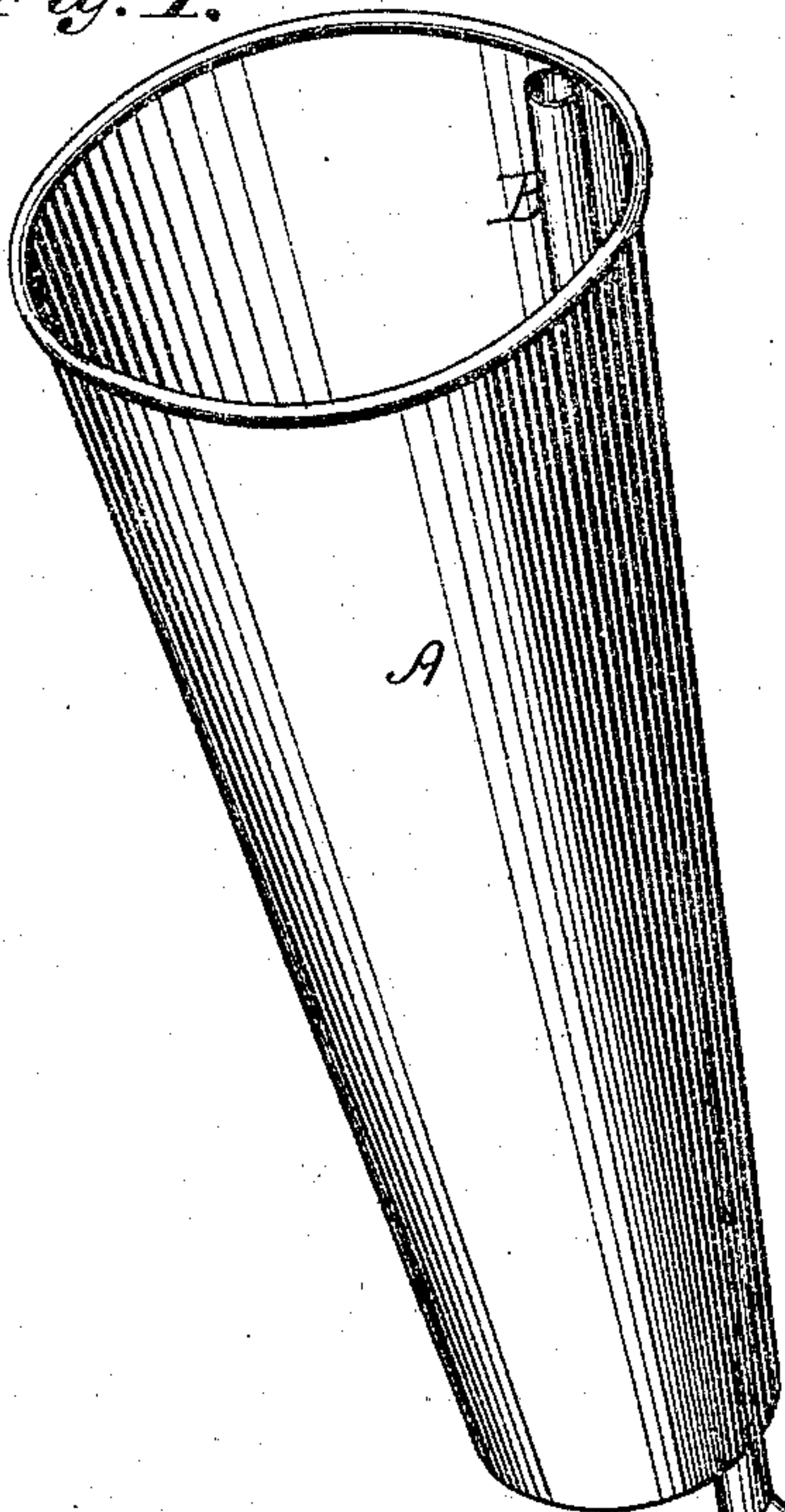
JAMES BUCK.

Improvement in Bung Funnels.

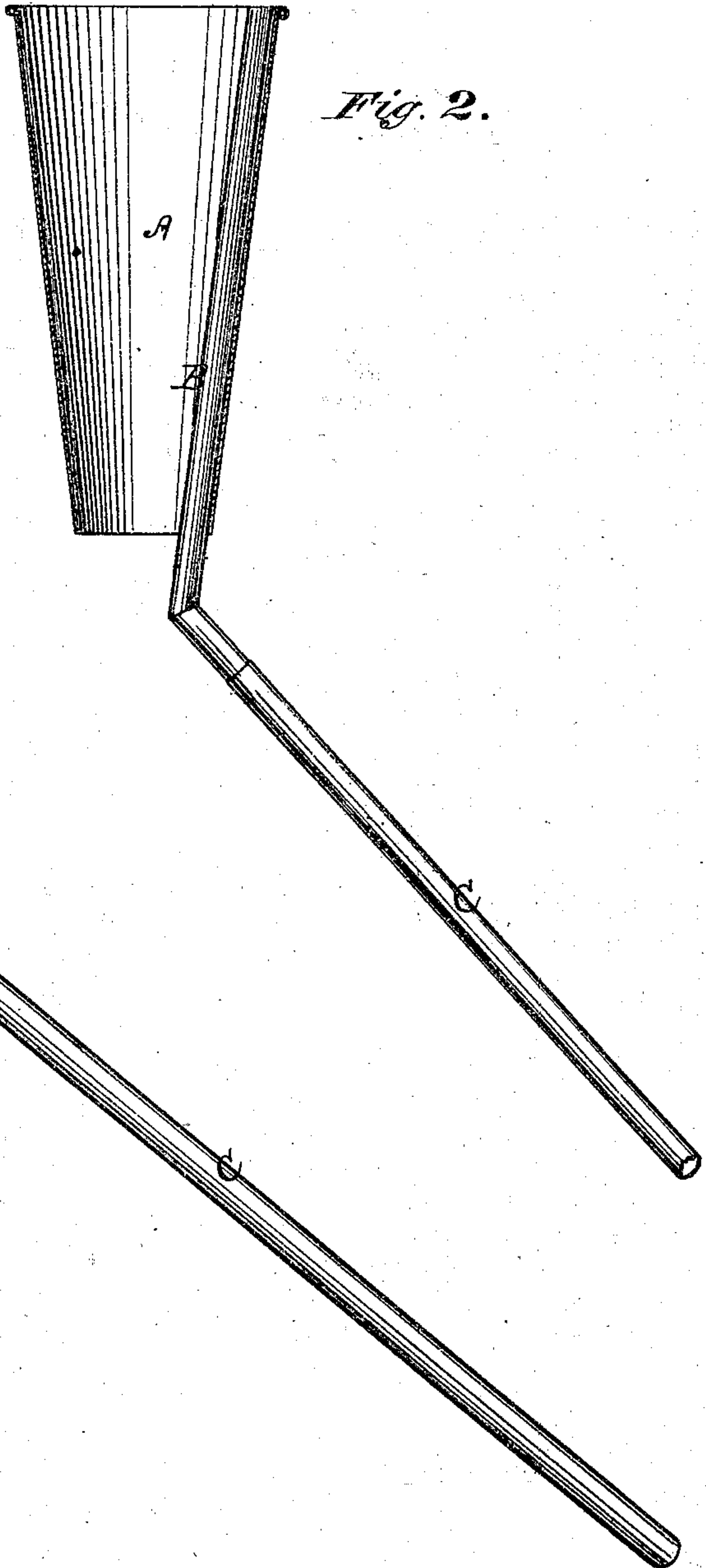
No. 118,337.

Patented Aug. 22, 1871.

*Fig. 1.*



*Fig. 2.*



Witnesses:  
*Frank B. [unclear]*  
*John J. Cooke*

*James Buck* Inventor:  
By attys *A. C. W. Intine & Co*

# UNITED STATES PATENT OFFICE.

JAMES BUCK, OF BALTIMORE, MARYLAND.

## IMPROVEMENT IN BUNG-FUNNELS.

Specification forming part of Letters Patent No. 118,337, dated August 22, 1871.

*To all whom it may concern:*

Be it known that I, JAMES BUCK, of Baltimore, in the county of Baltimore and State of Maryland, have invented certain new and useful Improvements in Bung-Funnels; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing making a part of this application.

My invention relates to that class of funnels known as bung-funnels, and through which the liquid contents of barrels are drawn directly from the bung. The object of my invention is to overcome the objections experienced in this class of funnels, and to permit the liquor to flow freely through the same without the common interruption produced by the ingress of air through the "flow;" and to this end my invention consists in providing the funnel on its interior with a tube or air-passage extending above the level of the liquor on the inside of the barrel and flush with the outer edge of the funnel, the interior end extending sufficiently far to be above the level of the liquor into the vacuum or air space, so that while the liquor is passing out through the funnel the necessary supply of air is being furnished to the interior of the barrel through the air-tube, thus avoiding the jerking or gurgling flow common to bung-funnels.

To enable those skilled in the art to which my invention pertains to make and use the same, I will proceed to describe the construction and operation of the same, referring by letters to the accompanying drawing, in which—

Figure 1 is a perspective view of one of my improved funnels; and Fig. 2 is a section near the center, exposing the air-tube as arranged on the interior thereof.

Similar letters indicate like parts in the two figures.

A is an ordinary bung-funnel, to the interior circumference of which, at any point thereof, is secured an air-tube, B, lying against the side of funnel and extending in same plane a short dis-

tance past the small end of the funnel, at which point it is turned up or elbowed. Onto this elbow is slid or otherwise secured an extension tube, C. I have shown this tube C attached to the interior of the funnel; but it is obvious that it may be disconnected, although I prefer to secure it, as shown.

The operation is as follows: The bung being "sprung" from the barrel from which liquor is to be drawn and the extension air-tube C secured to the other portion of air-tube B, the small end of the funnel is inserted into the bung-hole and forced tightly to its place, and the barrel is then tilted. The act of tilting will bring the interior end of the air-tube B C above the level of the liquor in the barrel and into the air-space, and while the liquor is flowing freely out of the funnel a corresponding supply of air for the vacuum thus formed is passing in through the air-tube.

It will also be observed that, the air-tube being made in two sections, B and C, when it is desirable to use the funnel for filling purposes the section C may be removed, and the termination of the air-tube is then above the ordinary level of liquor when the barrel is full, and, consequently, during the filling operation the air displaced may readily find an exit through the air-tube B; so that it will be seen my improved funnel may be used with equal advantage both in filling or emptying a barrel.

Having described the construction and operation of my improved funnel, what I claim as new, and desire to secure by Letters Patent, is—

In combination with the funnel A, the air-pipe in two sections, B and C, whereby a supply of air may be furnished to the interior of the barrel during the emptying operation, and by the removal of the section C air may be allowed to escape during the filling operation, substantially as herein shown and described.

JAMES BUCK. [L. s.]

Witnesses:

THOS. M. NEWMAN,  
WM. C. MCINTIRE.