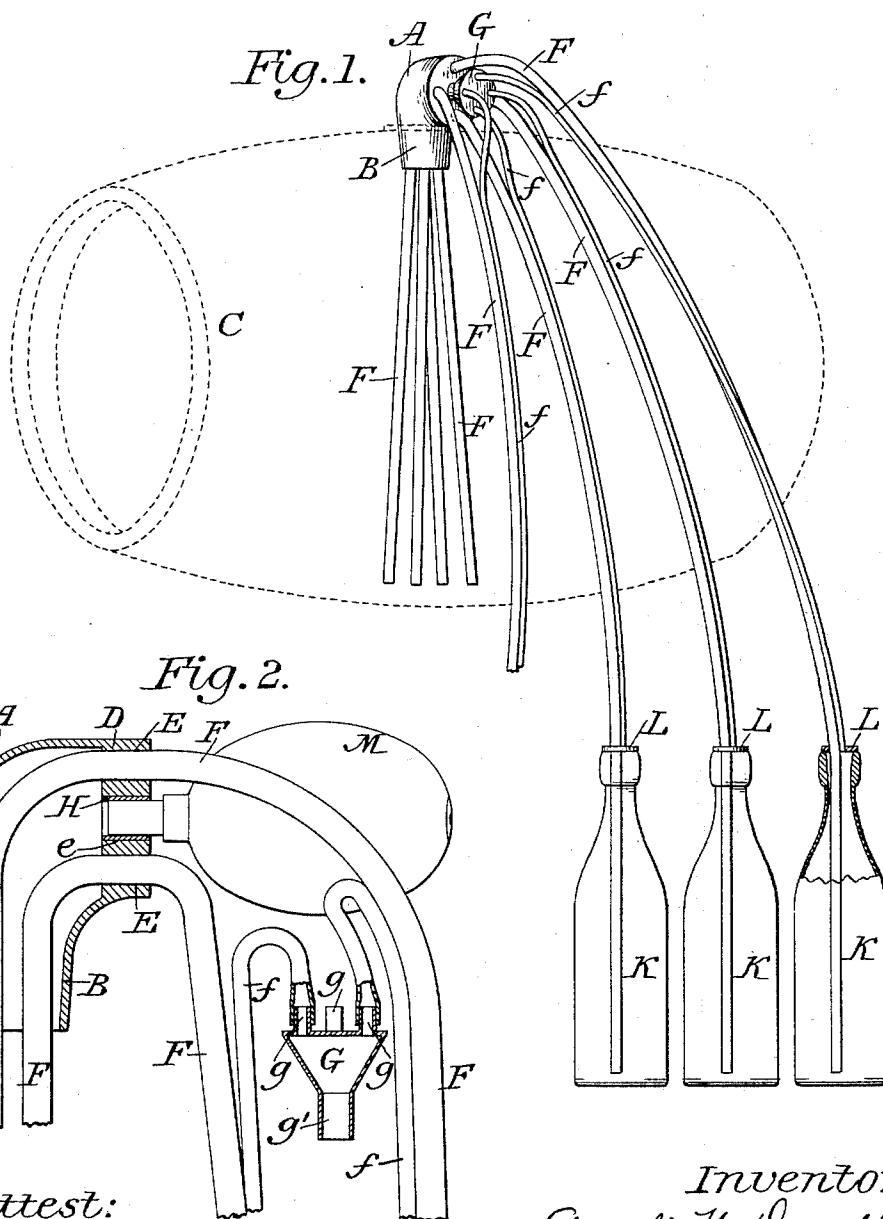


(No Model.)

A. M. DONALLY.
BUNG FOR BOTTLERS.

No. 468,437.

Patented Feb. 9, 1892.



Attest:
A. N. Jespersen.
A. W. Bidder.

Inventor:
Amalia M. Donally
by *William D. Greeley*
Atty.

UNITED STATES PATENT OFFICE.

AMALIA M. DONALLY, OF NEW YORK, N. Y.

BUNG FOR BOTTLERS.

SPECIFICATION forming part of Letters Patent No. 468,437, dated February 9, 1892.

Application filed September 29, 1891. Serial No. 407,105. (No model.)

To all whom it may concern:

Be it known that I, AMALIA M. DONALLY, of the city, county, and State of New York, have invented a new and useful Improvement in Bungs for Bottlers; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to devices employed in bottling liquids which are heavily charged with gases which it is desirable to retain as far as possible in order to preserve the life of the liquid; and its object is to provide means for returning to the barrel or other source of supply the gases which are set free in the bottles, and, further, to facilitate the starting of the operation of bottling.

My invention consists, mainly, in the improved bung for bottlers' use hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of my device in use with the associated parts in connection therewith, a barrel being represented in dotted lines; and Fig. 2 is a central section of the bung with an air-compressor connected therewith and with the head hereinafter referred to shown removed and in section.

The bung A may be of any suitable material or shape, but is preferably made of rubber, with a tapering neck B to fit snugly into the bung-hole of a barrel or other receptacle C. The body of the bung may be hollow, as shown; but the end D should be solid and may occupy with respect to the axis of the neck B a horizontal or vertical or any other convenient position. The bung is perforated, as at E, to receive snugly the filling-tubes F, and is also perforated, as at e, for connection with the gas-return tubes f. For convenience in operation, a head G is provided with a series of nipples g to receive the ends of the gas-tubes f and with the neck g' to enter the hole e in the bung. If desired, the hole e may be provided with a metallic lining-sleeve H.

In the use of my device the filling-tubes are extended through the holes in the bung to the bottom of the liquid in the barrel, while the other ends are extended into the bottle K. The gas-tubes extend from the bung to the necks of the bottles and may there be held by the hand or other convenient means; but

preferably a cap L is made to embrace both tubes snugly and to cover the open mouth of the bottle.

In bottling liquids the barrel is usually supported somewhat above the bottles and the liquid flows through the tubes under atmospheric pressure. To start this siphonage when a fresh barrel is put in place various expedients are resorted to, all more or less cumbersome and undesirable. To the end that this may be readily accomplished I have made the head G removable from the bung with the tubes f attached thereto, so that an air-compressor M, which I have shown as an ordinary rubber-bulb compressor, may be inserted in its place and sufficient pressure produced above the surface of the liquid to start it through the tubes F. When the flow has been started, the head G may be restored to place and the operation of bottling proceeded with. During the operation the gas which would otherwise escape from the mouth of the bottle is returned to the barrel through the bung, the return of the gas being facilitated and made more complete by the flow of the liquid from the barrel, there being no other opening for the ingress of gas or air to take the place of the liquid and restore equilibrium than through the gas-return pipes.

I claim as my invention—

1. The combination, with a filling-tube and a gas-return tube, of a bung perforated to receive the filling-tube and perforated for connection with the gas-return tube, and a cap adapted to embrace both tubes snugly and to cover the open mouth of the bottle or other receptacle to be filled, substantially as shown and described.

2. The combination, with a bung for bottlers, having a neck to enter and fit the bung-hole of a barrel or other receptacle and having a perforation to receive a filling-tube, of a head having a neck to enter another perforation in said bung and having a nipple for connection with a gas-tube, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

AMALIA M. DONALLY.

Witnesses:

A. N. JESBERA,
W. B. GREELEY.