

T. W. MURRAY.
BOTTLE-STOPPER.

No. 171,410.

Patented Dec. 21, 1875.

Fig 1.

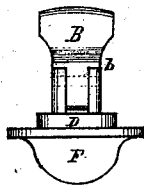


Fig 2.

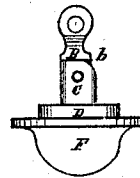
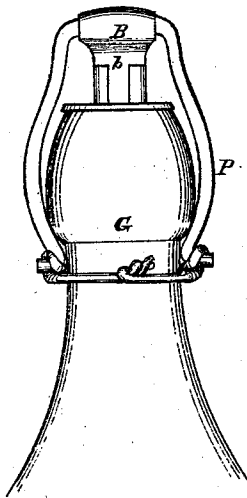


Fig 3.



Witnesses.

Henry Barr Berbeck
Albert Hughes

Inventor.

Thos W. Murray
New York.

UNITED STATES PATENT OFFICE.

THOMAS W. MURRAY, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS
RIGHT TO HENRY VAN DERBECK, OF SAME PLACE.

IMPROVEMENT IN BOTTLE-STOPPERS.

Specification forming part of Letters Patent No. **171,410**, dated December 21, 1875; application filed
November 27, 1875.

To all whom it may concern:

Be it known that I, THOS. W. MURRAY, of the city, county, and State of New York, have invented certain Improvements in Bottle-Stoppers.

This invention relates to a new and improved device for stopping bottles containing ale, beer, &c.; and the following description, taken in connection with the annexed drawings, forms a full and exact specification of the same, together with such parts as I claim, and desire to secure by Letters Patent.

In the accompanying sheet of drawings, Figure 1 represents a front view of the stopper embodying my invention. Fig. 2 is a side view of the same. Fig. 3 is a front view of the same, in combination with the head and neck of a bottle, G, and the wires for attaching the same.

F is the stopper proper, which enters the mouth of the bottle, and is made of elastic impermeable material with a flange projecting around its upper part, while its bottom is nearly in the shape of a half-circle. This is securely fastened to the metal base D. B and C form the two parts of a toggle or elbow joint, *b*, working on and confined to the upper part of the wire P, which is securely attached to the neck of the bottle.

The objects of this invention are to furnish a stopper of great power, durability, simplicity, and cheapness, as well as rapidity in working, either in closing or unclosing the bottle.

The manner of working this stopper is as follows: When a bottle is filled, or when part of the contents of one have been poured out, the wire P is raised to an angle of about for-

ty-five degrees, the joint *b* being bent at the time. This permits the stopper F to go into the mouth of the bottle in a horizontal position. By placing the thumb at the point *b*, at the same time bringing the wire P to a vertical position, a great pressure is brought on the elastic material of which the stopper is composed. This pressure is produced by the piece B working on a much shorter radius than the wire P, and as the latter cannot rise, the consequence is, that the stopper is very tightly pressed down into the mouth of the bottle. The wire P is brought forward as far as the elbow-joint will allow, which is a point just forward of the perpendicular. This position of the wire P keeps it from working either forward or backward in riding or handling the bottles, keeping them tightly closed until purposely opened. This is done by pressing the wire P backward, when the stopper is instantly carried away from the mouth of the bottle, the elasticity of the flange causing the stopper to turn completely over the wire P when the latter is suddenly pressed back.

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

A stopper for bottles operating as herein described, in which a toggle or elbow joint is used, in combination with the wire P and the flange-stopper F, substantially as and for the purpose set forth.

THOS. W. MURRAY.

Witnesses:

LEWIS L. PIERCE,

HENRY VAN DERBECK.