

(No Model.)

C. WALTER.
SIPHON TOP.

No. 502,451

Patented Aug. 1, 1893.

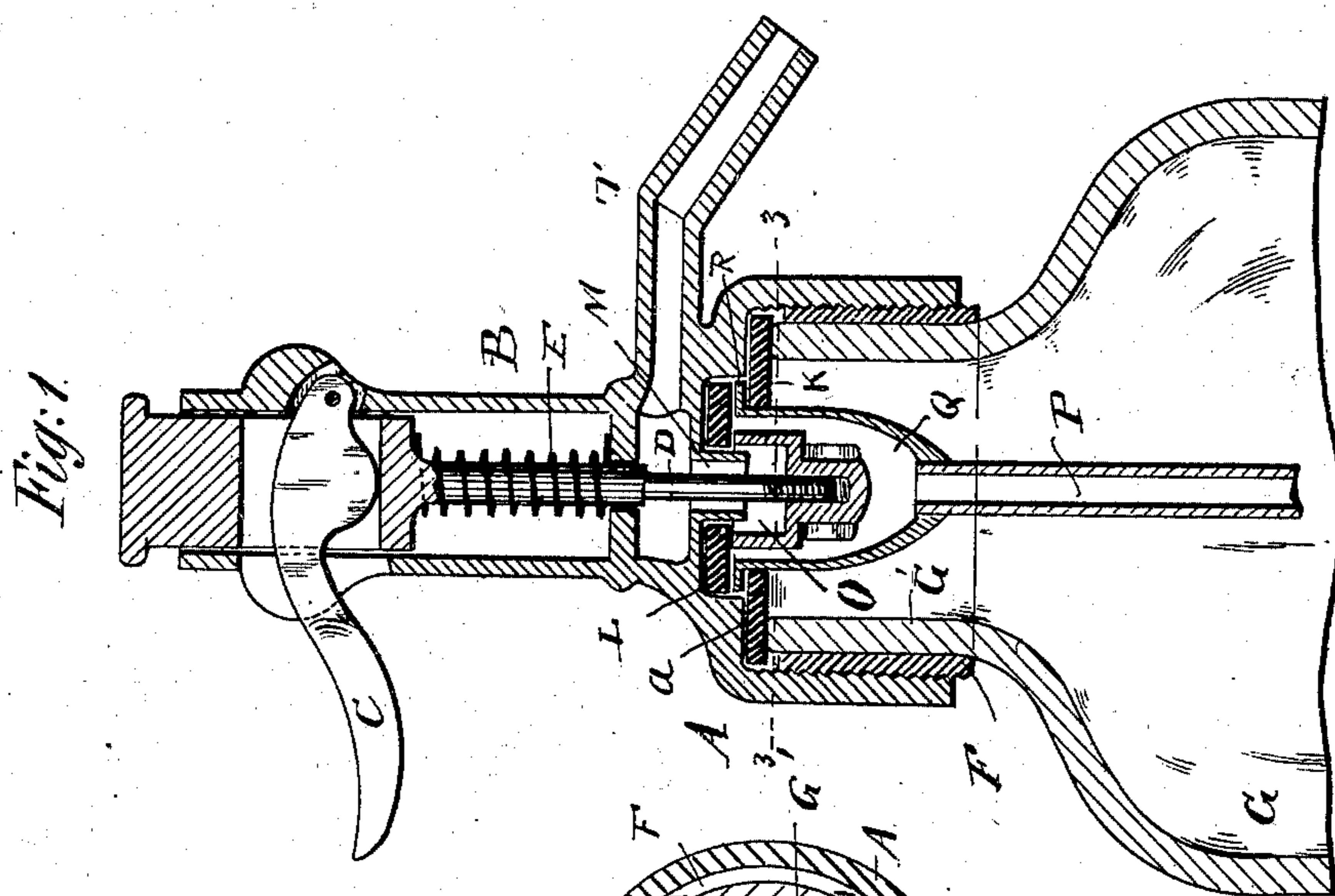
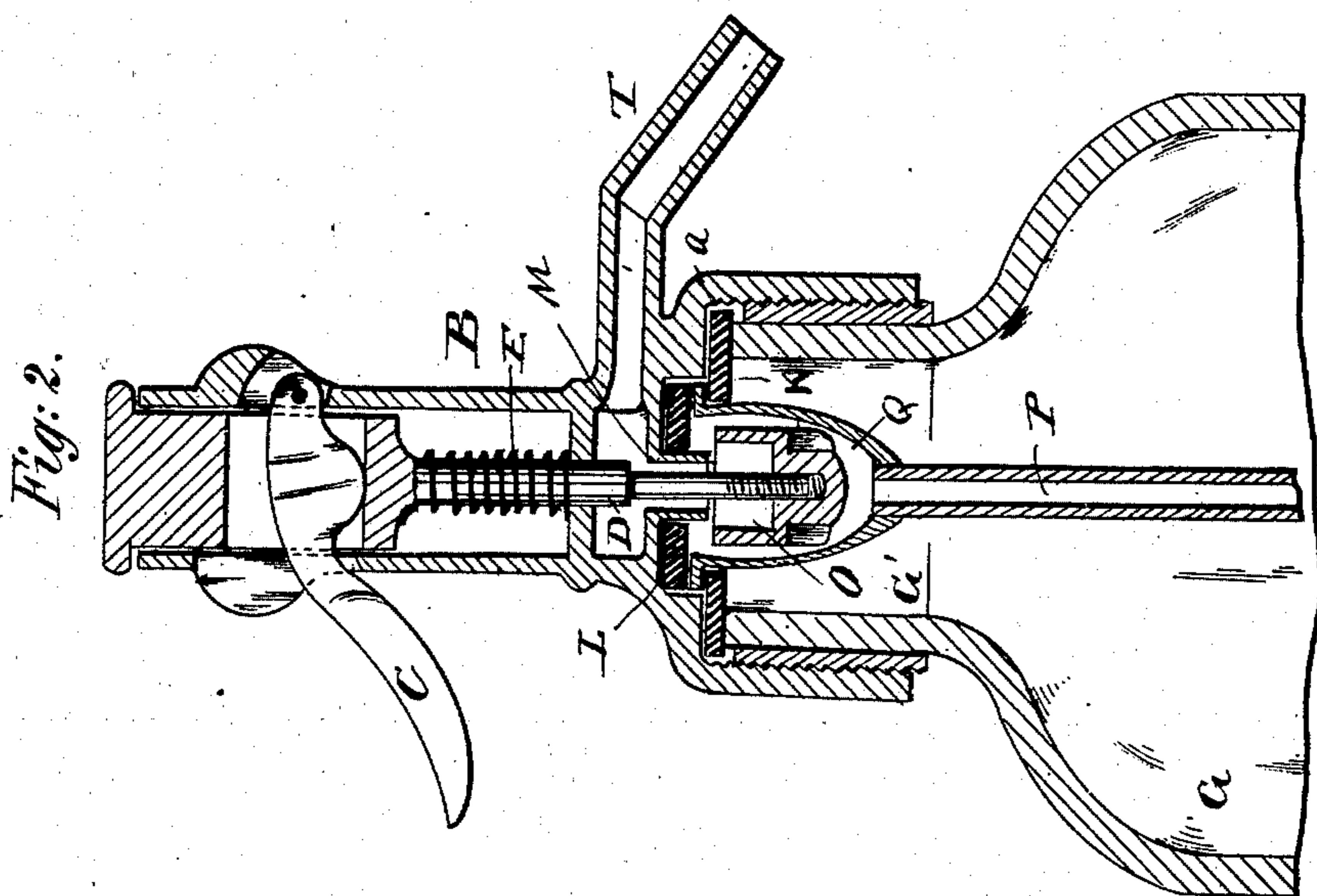
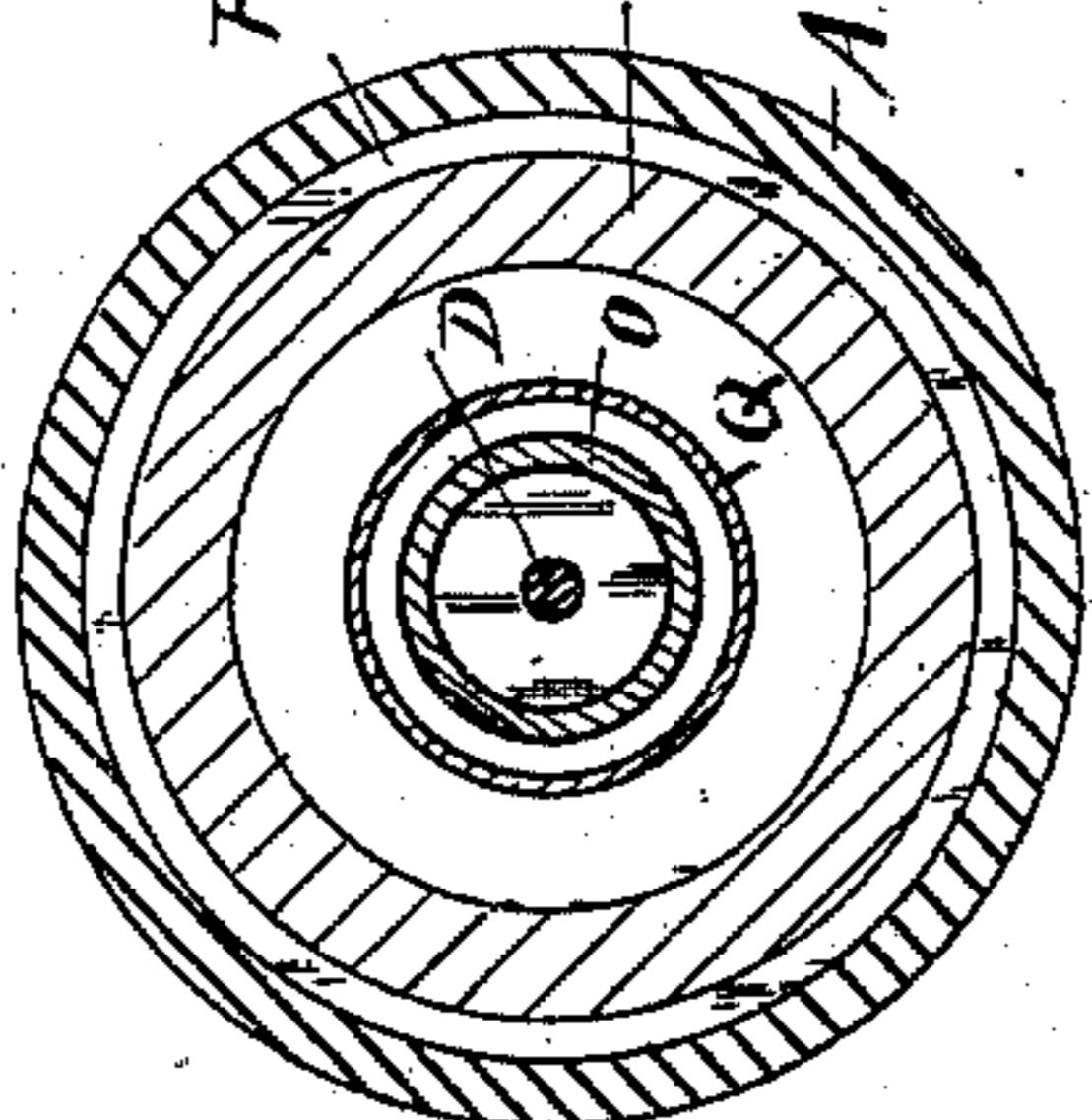


Fig. 3.



WITNESSES:
Marion Hall
Charles Schroeder

INVENTOR
C. H. Walter.
BY *Lyonel P. Rogers.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES WALTER, OF STAPLETON, NEW YORK.

SIPHON-TOP.

SPECIFICATION forming part of Letters Patent No. 502,451, dated August 1, 1893.

Application filed December 15, 1892. Serial No. 455,296. (No model.)

To all whom it may concern:

Be it known that I, CHARLES WALTER, a citizen of the United States, and a resident of Stapleton, in the county of Richmond, State of New York, have invented certain new and useful Improvements in Siphon-Tops, of which the following is a specification.

This invention relates to improvements in the tops of siphons for carbonated liquids; and the object of my invention is to provide a top of this kind in which the valve is perfectly packed and the glass tube is prevented from being broken by rough handling of the siphon.

The invention consists in a siphon-top constructed with a bottom neck having a packing-ring in its upper part, a valve-stem passing through said packing-ring and a cup-shaped valve screwed to the lower end of said valve stem below the packing-ring.

The invention also consists in the construction and combination of parts and details, which will be fully described hereinafter and finally pointed out in the claim.

In the accompanying drawings, Figure 1 is a longitudinal vertical sectional view of my improved siphon-top closed. Fig. 2 is a similar view, opened, and Fig. 3 is a horizontal sectional view, on the line 3 3, of Fig. 1.

Similar letters of reference indicate corresponding parts.

The siphon-top is made in the usual manner with the screw-neck A, the hollow stem B, the spout T, the pivoted lever C and the sliding valve-stem D pressed upward by a helical spring E. A metal collar F, which is screw-threaded internally, is applied on the outer surface of the neck G' of the bottle or siphon G, and on the top of the same and the upper edge of the bottle neck G' a soft rubber packing ring K is placed, the neck A being provided at its top with an internal shoulder a that rests on said packing-ring. In the top of the neck A a packing-ring L of rubber is held in a suitable annular recess, and through said packing-ring a neck M passes, that forms a guide for the lower end of the valve stem D. The lower end of the stem D is screw-threaded, and on the same the cup-shaped valve O is screwed, the upper open end of which can rest against the packing-ring L. The glass tube P is secured at its upper end in a hollow head Q provided at its upper edge with the flange

R that rests between the packing-rings L and K. The spring E normally keeps the upper edge of the cup-shaped valve O pressed against the under side of the packing-ring L, thus interrupting the communication between the glass tube P and the faucet spout T. Whenever it is desired to draw the liquid the lever C is pressed down and the cup-shaped valve O is moved from its seat, that is, namely the packing-ring L, thus permitting the liquid under pressure to pass through the tube P into the hollow head Q and up through the neck M into the hollow stem D and the faucet tube or spout T. As soon as the lever C is released the spring E draws the valve O up against its seat again. As the seat is made of rubber and the edge of the valve rests on said seat, said valve closes perfectly and there is no possibility of a leak. Furthermore, the cup-shaped valve O, has the advantage that when the valve is opened suddenly and the water rushes up it does not spout out of the tube T with such great force as in ordinary spouts, for the reason that the water first fills the cup-shaped valve and thereby loses some of its force. The flange R of the head Q being held between the rubber packing-rings L and K has a more or less elastic support and thus prevents the glass tube from being broken when the bottle is set down forcibly or is jostled.

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

In a siphon top, the combination, with a faucet stem having a tubular neck, of a packing ring held in the top of said neck, a cup-shaped valve below said packing ring, and a spring actuated stem, to the lower end of which the valve is screwed, the open end of said valve being at the top and the closed end at the bottom, said upper open end of the valve seating against the packing ring, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

CHAS. WALTER.

Witnesses:

OSCAR F. GUNZ,

HARRY WILLARD GRIFFITHS.