

No. 757,794.

PATENTED APR. 19, 1904.

E. WALKER.  
BOTTLE TAP.

APPLICATION FILED SEPT. 2, 1903.

NO MODEL.

Fig. 1.

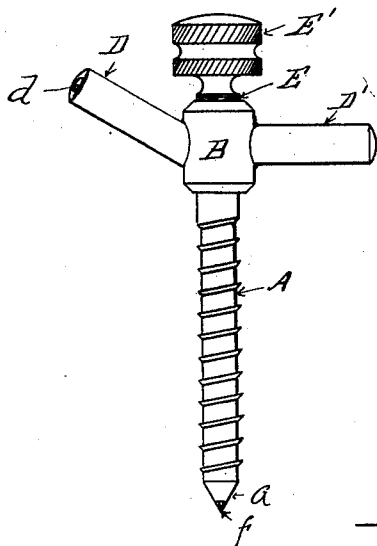


Fig. 2.

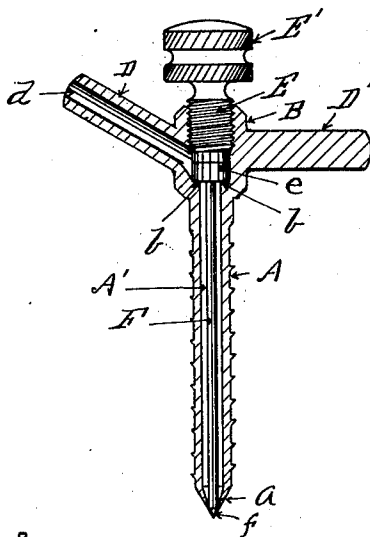
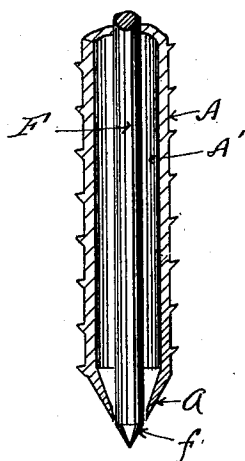


Fig. 3.



Witnesses.

G. J. Mad  
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Inventor.

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By J. R. + H. M. Sturgeon  
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## UNITED STATES PATENT OFFICE.

EDWIN WALKER, OF ERIE, PENNSYLVANIA.

## BOTTLE-TAP.

SPECIFICATION forming part of Letters Patent No. 757,794, dated April 19, 1904.

Application filed September 2, 1903. Serial No. 171,612. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN WALKER, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Bottle-Taps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, forming part of this specification.

My invention relates to bottle-taps adapted to withdraw effervescent liquids from bottles without removing the cork therefrom whereby the contents of such bottles can be withdrawn at such intervals as may be desired without any material portion of the gases therein escaping, so that the liquid remaining in the bottle will not deteriorate or spoil.

I accomplish the desired result by constructing my improved bottle-tap of a hollow stem or screw bored out its entire length, but having its bore reduced for a short distance at its inlet end, and on the outlet end of this stem there is a head provided with a valve-seat and valve and with cross-arms for screwing the stem through the cork, one of which arms is hollow, with the opening therein communicating with the opening in the head above the valve-seat therein, and in this head there is a valve adapted to close down upon the valve-seat therein. Extending downward from the valve there is a rod which fits the reduced portion of the opening in the stem or screw and extends slightly beyond the inlet end thereof and is tapered to a point, said reduced portion of the stem and the tapered end of the rod forming together a point for the stem or screw, so that it can be readily screwed through a bottle-cork, and when the valve is raised from the seat the tapered outer end of the rod is withdrawn thereby from the reduced portion of the inlet end of the stem or screw, so as to allow the fluid in the bottle to flow upwardly therethrough and around the rod in the larger portion of the bore in the stem.

The features of my invention are hereinaf-

ter more fully set forth and described, and illustrated in the accompanying drawings, in which—

Figure 1 shows my improved bottle-tap in elevation. Fig. 2 shows a vertical section thereof. Fig. 3 shows an enlarged vertical section of the lower end of the stem or screw and of the rod therein.

In the drawings, A is a screw upon which there is a head B, provided with a valve-seat *b* therein. On this head B there are lateral arms D and D', the arm D being preferably inclined upward and bored out, so as to have an opening *d* therein, which communicates with the opening in the head B above the valve-seat *b*. The head B is bored out and screw-threaded above the valve-seat *b* and is provided with a valve E, operating therein, provided with packing *e*, adapted to fit down upon the valve-seat *b*. The valve E is also provided with a thumb-piece E', by means whereof the valve E can be operated in the head B. Below the valve-seat *b* the stem A is bored out, as at A', down to near the extreme point *a* thereof, and at *a* the bore is reduced, as is clearly shown in Figs. 2 and 3, so that above the point *a* the bore A' is considerably larger. The lower end *a* is also pointed down to the reduced opening at the extreme end thereof. To the valve E there is attached a rod F, which extends through the bore A' and through the contracted portion thereof at *a* and is of such diameter that it will pass freely through the same, and yet fit the inlet-opening sufficiently close to prevent particles of cork from entering or clogging the same, and the outer end *f* of the rod is pointed, so that when the valve E is closed the pointed end *f* of the rod F forms a continuation of the pointed end *a* of the screw or stem A, as shown in all of the figures, so that when the valve is closed the stem is provided with a complete point for penetrating the bottle-cork; but when the valve E is opened it withdraws the pointed end *f* of the rod F from the contracted portion of the bore A' in the stem or screw A and back into the enlarged portion thereof, so that liquid can flow therethrough freely.

From the foregoing description it is believed the operation of my improved bottle-

tap is so obvious that further description thereof is unnecessary.

Therefore, having fully described my invention, so as to enable others to construct and use the same, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination in a bottle-tap, of a hollow stem having the inlet end of the opening therein contracted, a valve for closing the outlet of the opening in the stem, and a rod operated by said valve extending through the opening in the stem and the contracted inlet portion thereof, and adapted to be withdrawn from the contracted portion thereof by the operation of the valve, substantially as set forth.

2. The combination in a bottle-tap, of a stem having a central opening therein con-

tracted at its inlet end, a head on the outlet end of said stem, a valve-seat in said head, a valve in said head operating on said valve-seat, a discharge-opening in said head above the valve-seat, and a rod secured to said valve and movable therewith, of suitable diameter to fit and pass through the contracted portion of the opening at the inlet end of the bore in the stem and extending therethrough when the valve is closed a sufficient distance to form a portion of the point of the stem, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

EDWIN WALKER.

Witnesses:

H. M. STURGEON,  
G. J. MEAD.