J. C. WHARTON.

Draught-Tubes for Soda-Water.

No. 168,201. Patented Sept. 28, 1875.

Fig. 1

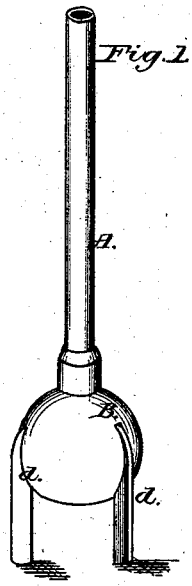


Fig. 2.

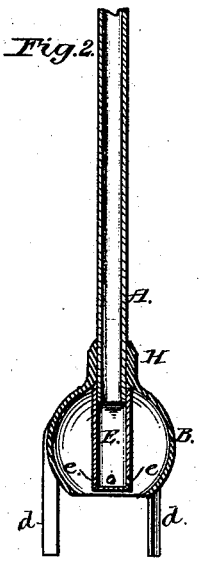
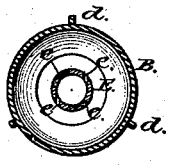


Fig. 3.



Witnesses:

Wm G. Ewing

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UNITED STATES PATENT OFFICE.

JOHN C. WHARTON, OF NASHVILLE, TENNESSEE.

IMPROVEMENT IN DRAFT-TUBES FOR SODA-WATER.

Specification forming part of Letters Patent No. **168,201**, dated September 28, 1875; application filed July 12, 1875.

To all whom it may concern:

Be it known that I, JOHN C. WHARTON, of Nashville, Davidson county, Tennessee, have invented certain Improvements in Draw-Tubes, of which the following is a specification:

The nature of my improvement is to enable those who dispense aerated beverages from reservoirs or fountains to control the flow of the gaseous liquid, so as to prevent or facilitate the frothing of the beverage as the demand or wish may be.

The object is to supply a tube having a shielded nozzle, so arranged that the shield may be removed or displaced by bringing the tumbler used in drawing the beverage, into contact with a portion or projection of the shield.

The nozzle may be so constructed as that the water or other liquid may issue from it in a number of nearly horizontal and radial jets.

The orifices through which the liquid escapes may be arranged around the lower end of the tube, and in such manner as to dispose the jets tangentially to the inner circumference of the tube, thus imparting a circulatory motion to the liquid as it issues into the tumbler. The arrangement will also cause the shield to revolve when the jets impinge against it internally.

The advantages of the improvement are, that the jets of aerated or carbonated water may be forced directly into the sirups usually put into the tumbler to sweeten and flavor the beverage, and thus insure a forcible and thorough mixture of the ingredients, producing a bulky froth. Also, when the froth is not desired, the jets may be caused to issue into the shield, and, after expending their force against the inside of the same, may flow lightly out of an opening in the bottom upon the sirup without agitating it much, thus preventing the frothing, and enabling the dispenser to give more water than in the former case.

The construction of the improved draft-tube may be better understood by reference to the accompanying drawings, in which similar letters of reference indicate corresponding parts.

Figure 1 is a perspective view of my improved draft-tube. Fig. 2 is a longitudinal section of the same. Fig. 3 is a top view of a section of the shield and tube, showing the orifices *e e*, &c., of the nozzle E.

A is a tube of any suitable material, having over its lower end a short piece of larger tubing, E, ending with a nozzle with a convenient number of small outlets or orifices, *e e e e*. (The drawing representing four outlets is not intended to limit the number that may be used.) B is a hollow open globe of metal, into the top of which a short section of tubing is soldered or otherwise secured. This section of tubing H is of such diameter as to pass loosely over the tube A, and to rest on a shoulder formed by the connection of the tube E with tube A when the shield or globe B is at its lowest limit.

The shield is thus rendered movable on the tube A, and may at will be raised upward along the tube A, and thus uncover the tube E, and allow the orifices *e e e e* to deliver the jets issuing from them into the surrounding medium, in which they may be immersed. In ordinary cases they will issue directly into some sirupy liquid or flavored sirup, as the chief design of the improvement is for drawing so-called soda-water.

d d d are legs or projections connected with the shield, enabling the shield to be elevated by bringing the tumbler upward against the projections *d d d*. The jets may be caused to issue radially or tangentially from the tube, as may be preferred.

The whole combination may be attached to the ordinary tubes connected with soda-fountains by any convenient coupling, or by soldering it on.

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

1. In combination with the shield B, with or without projections *d*, the pipe A and nozzle E, forming a shoulder, the nozzle also having radial or tangential holes, substantially as and for the purpose set forth.

2. The movable shield B, with projections *d d d*, &c., as and for the purposes described.

JOHN CRIDDLE WHARTON.

Witnesses:

WM. H. WHARTON,

WM. G. EWING.