

W. Attick,

Fountain.

No. 100349.

Patented Mar. 1. 1870.

Fig. 1.

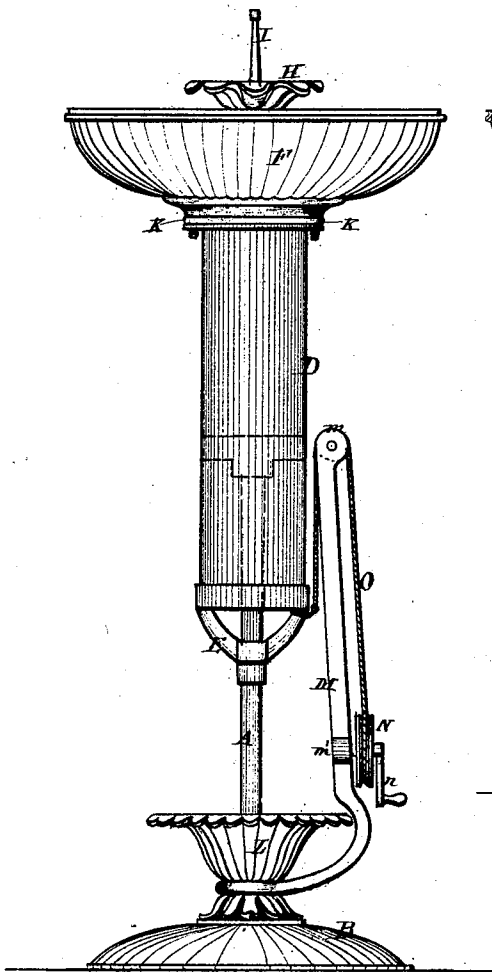


Fig. 2.

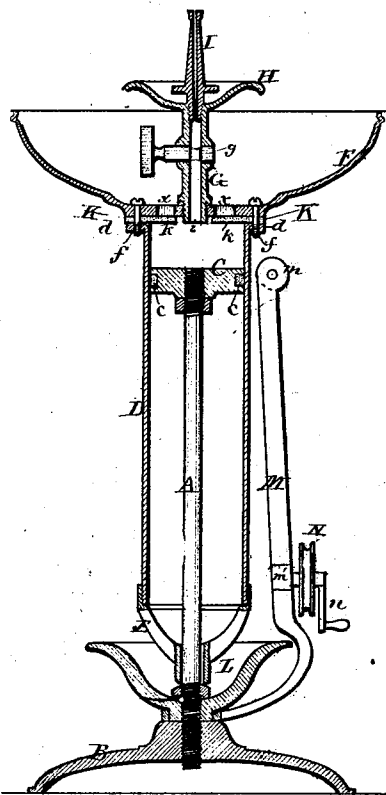
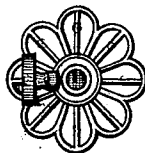


Fig. 3.



Witnesses.

Charles H. Poole

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Inventor.

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by Prindle & Byer  
Attys.

# United States Patent Office.

WILLIAM ALTICK, OF DAYTON, OHIO.

Letters Patent No. 100,349, dated March 1, 1870.

## IMPROVED PARLOR FOUNTAIN FOR DIFFUSING LIQUIDS.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, WILLIAM ALTICK, of Dayton, in the county of Montgomery, and in the State of Ohio, have invented certain new and useful Improvements in Portable or Parlor Fountains, for odorizing, deodorizing, &c.; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a front elevation of my improved device;

Figure 2 is a vertical central section of the same; and

Figure 3 is a plan view of the lower end of the jet-pipe.

Letters of like name and kind refer to like parts in each of the figures.

My invention belongs to a class of devices having for its object the production of a jet of water or other fluid by mechanical means; and

It consists in the general construction and arrangement of the several parts of the device, as hereinafter set forth.

In the annexed drawing—

A represents a rod, secured vertically within a suitable base, B, and having upon its upper end a piston, C, provided upon its periphery with a groove, *c*, for the reception of hemp or other fibrous packing.

D represents a metal cylinder, corresponding in inside diameter with the outside of the piston C, over which it is placed, and its lower end being open and provided with a guide, E, secured to said cylinder, and working upon the rod A, while its upper end is closed by means of a basin, F, to the bottom of which said cylinder is attached by means of screws, *f*, passing downward through said basin into a flange, *d*, secured to said cylinder.

Secured to and extending upward from the center of the basin F is a short pipe, G, provided at its center with a stop-cock, *g*, and at its upper end with a small basin, H, from the center of which projects upward a small nozzle or jet-pipe, I.

Two or more openings, *x*, are provided in the bottom of the basin F, through which communication may be had with the interior of the cylinder for the purpose of admitting water thereto, which water is afterward prevented from escaping through said opening by means of leather flaps or valves, *k*, extending inward from and forming a part of the gasket K, placed between the cylinder and basin, each valve closing upward against one of the openings.

As thus constructed, if the basin F be filled with water and the cylinder raised up on the rod A, the water will be drawn through the openings *x* into the space between the piston and the upper end of the

cylinder until said space is filled, when, upon releasing said cylinder, its weight, together with that of the basin, will create a pressure upon said water, which, being prevented from escaping through said openings, will pass upward through the pipe G and nozzle I with sufficient force to form a fine jet.

A wire-gauze diaphragm, *i*, is placed over the lower end of the pipe G, for the purpose of preventing the admission thereto of any substance having a sufficient size to cause it to obstruct the nozzle.

The stop-cock *g* is used for the purpose of regulating the flow of the water, and also to prevent air from entering the cylinder when the same is raised.

In order that all annoyance from the leakage of water through the piston may be avoided, a drip-cup, L, is placed around the rod A, immediately above the base B, into which said water falls and is retained.

In fountains above a certain size it would be inconvenient as well as difficult to raise the cylinder for the purpose of charging the same, unless some especial means were provided for the purpose of assisting the operator.

To accomplish this object an arm, M, is secured between the base and drip-cup, and from thence curves outward and upward, and has pivoted within its upper end a pulley, *m*.

Projecting horizontally outward from the arm M, just above the drip-cup, is a stud, *m'*, upon which is pivoted another pulley, N, having secured thereto a crank, *n*.

A cord, O, is secured at one end to the pulley N, and from thence passes over the pulley *m*, and has its other end attached to one of the arms of the guide E, so that by turning said crank the cord is wound thereon, thereby causing the cylinder to be readily elevated to the desired height.

The exterior of this fountain being highly ornamented will make it an attractive and pleasing addition to any center-table, in addition to which it may be usefully employed for odorizing, deodorizing, or disinfecting the atmosphere of a room, by adapting the liquid contained therein to the especial purpose designed; and as its parts are few and not liable to become deranged, and the whole can be furnished at a comparatively small cost, it is believed that general use will follow its introduction to the public.

Having thus fully set forth the nature and merits of my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The cylinder D, provided with the guide E and connected to the basin F, in combination with the rod A and piston C, substantially as and for the purpose specified.

Also, the combination of the cylinder D, the basin

F, the openings *x*, and the valves *k*, substantially as shown, and for the purpose described.

Also, the pipe G, covered at its lower end with the diaphragm *i* and provided with the stop-cock *g*, in combination with the basin H and the nozzle I, substantially as herein specified, and for the purpose described.

Also, in combination with the rod A, piston C, and cylinder D, the drip-cup L, substantially as and for the purpose specified.

Also, the means employed for elevating the cylinder for the purpose of charging the same, consisting of the arm M, the pulleys *m* and N, the crank *n*, and the cord O, substantially as herein set forth.

Also, the combination of the rod A, the piston C, the cylinder D, the basin F, provided with the openings *x* and valves *k*, the pipe G, provided with the diaphragm *i* and stop-cock *g*, the basin H, and the nozzle I, substantially as and for the purpose specified.

Also, the general construction and arrangement of the various parts of the hereinbefore-described device, substantially as shown, and for the purpose set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 30th day of September, 1869.

WILLIAM ALTICK.

Witnesses:

THOS. D. MITCHELL,  
JOHN COLLINS.