A. WEBER.

Tip for Stationary and Portable Fountains.

No. 216,920. **Patented June 24, 1879.**

Fig. 1.

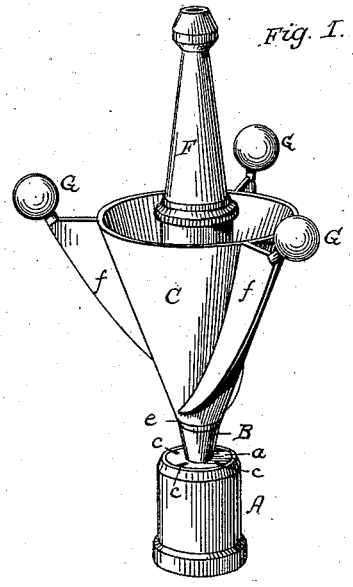


Fig. 2.

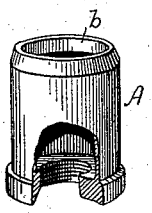


Fig. 3.

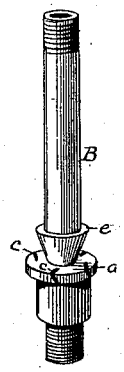


Fig. 4.

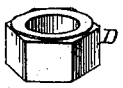


Fig. 5.

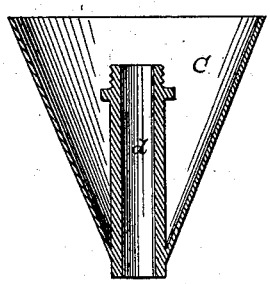


Fig. 7.

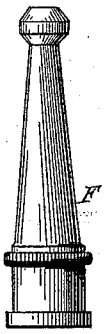
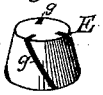


Fig. 6.



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UNITED STATES PATENT OFFICE.

ADOLPH WEBER, OF DETROIT, MICHIGAN.

IMPROVEMENT IN TIPS FOR STATIONARY AND PORTABLE FOUNTAINS.

Specification forming part of Letters Patent No. **216,920**, dated June 24, 1879; application filed February 20, 1879.

To all whom it may concern:

Be it known that I, ADOLPH WEBER, of Detroit, in the county of Wayne and State of Michigan, have invented an Improvement in Tips for Stationary and Portable Fountains, of which the following is a specification.

The nature of my invention relates to certain new and useful improvements in tips for stationary and portable fountains, designed to produce beautiful æsthetic effects to the eye; and the invention consists in the novel construction of the various parts, and their arrangement in various combinations with each other, as more fully hereinafter set forth and described.

In the drawings, Figure 1 is a perspective view of my improved tip. Fig. 2 is a perspective of that part of the tip which screws onto the water-pipe of the fountain, for which purpose the interior lower end of the part is provided with a suitable female thread. Fig. 3 is a perspective view of that part of the tip which screws into the part shown in Fig. 2, and shows the plug to fit the top of said part, with spiral water-ways in its periphery. Fig. 4 is a perspective of the nut which holds the conical cup and wings, so that they may rotate on the part shown in Fig. 3. Fig. 5 is a vertical section through the center of the conical cup. Fig. 6 is a perspective view of the plug with spiral water-ways in its periphery, designed to be inserted in the nozzle. Fig. 7 is an elevation of the nozzle.

In the accompanying drawings, which form a part of this specification, A represents a hollow plug interiorly tapped at its base to engage with a suitable screw upon the end of the water-pipe of a fountain to which my invention is to be applied. Into the top of this plug is screwed the pipe B, provided with a flange, *a*, which fits closely into the opening *b* in the plug, to prevent the flow of water, except as hereinafter described.

The opening in the pipe B communicates with the chamber, or, if preferred, with suitable ways in the plug A and allows a portion of the water to flow through it; and in the periphery of the flange *a* are cut spiral water-ways *c*, which will give direction to the water which flows through them.

C is an inverted conical cup, interiorly provided with a pipe, *d*, which is sleeved on the pipe B, so that its base rests and will revolve on the shoulder *e* of said pipe, and when in place the nut D, screwed to the top of the said pipe, will hold the before-named parts together.

To the periphery of the cup are secured, at equal distances apart, the spiral flanges or wings *f*. These should be so placed that the water coming through the spiral water-ways *c* will strike the under side of these wings at nearly right angles.

E is a solid plug, provided with spiral water-ways *g*, as shown, equidistant from each other, and it is fitted within the nozzle to prevent a flow of water through the same except it passes through these water-ways. The plug being in place, the nozzle F, which is of the ordinary construction, is screwed onto the top of the pipe *d*, the nozzle being of sufficient size at its base to inclose the nut D.

The parts are all so arranged as to rotate upon the pipe B—that is to say, the conical cup and its wings and the nozzle so revolve, while the plug A and pipe B remain stationary.

By means of this construction and arrangement of parts, when attached either to a portable or stationary fountain, some very beautiful effects are given, and the course of the water is under control to produce them when desired.

It will be noticed that balls G are secured to the upper edge of the conical cup. These are to act as counter-balances to the force of the water against the wings. The effect may be materially increased in beauty by making the cup, wings, and balls of glass; or, if made heavy enough, the balls may be dispensed with upon the cup.

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

1. In a fountain-tip, and in combination with the plug A, provided with openings in the top, substantially as shown, the rotating flanged cup C, operated by the water issuing through the said openings or water-ways, substantially as set forth.

2. In combination with the hollow plug A, the pipe B, provided with flange *a*, in the periphery of which are the spiral water-ways *c*,

and the rotating flanged cup C, substantially as and for the purposes specified.

3. In nozzles, the removable plug E, provided with spiral water-ways *g*, substantially as and for the purposes described.

4. An improved fountain-tip consisting of the parts A, B, C, D, E, and F, constructed and arranged to operate substantially as and for the purposes set forth.

5. The improved fountain-tip consisting of the parts A, B, C, D, E, F, and G, constructed and arranged to operate substantially as and for the purposes described.

ADOLPH WEBER.

Witnesses:
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