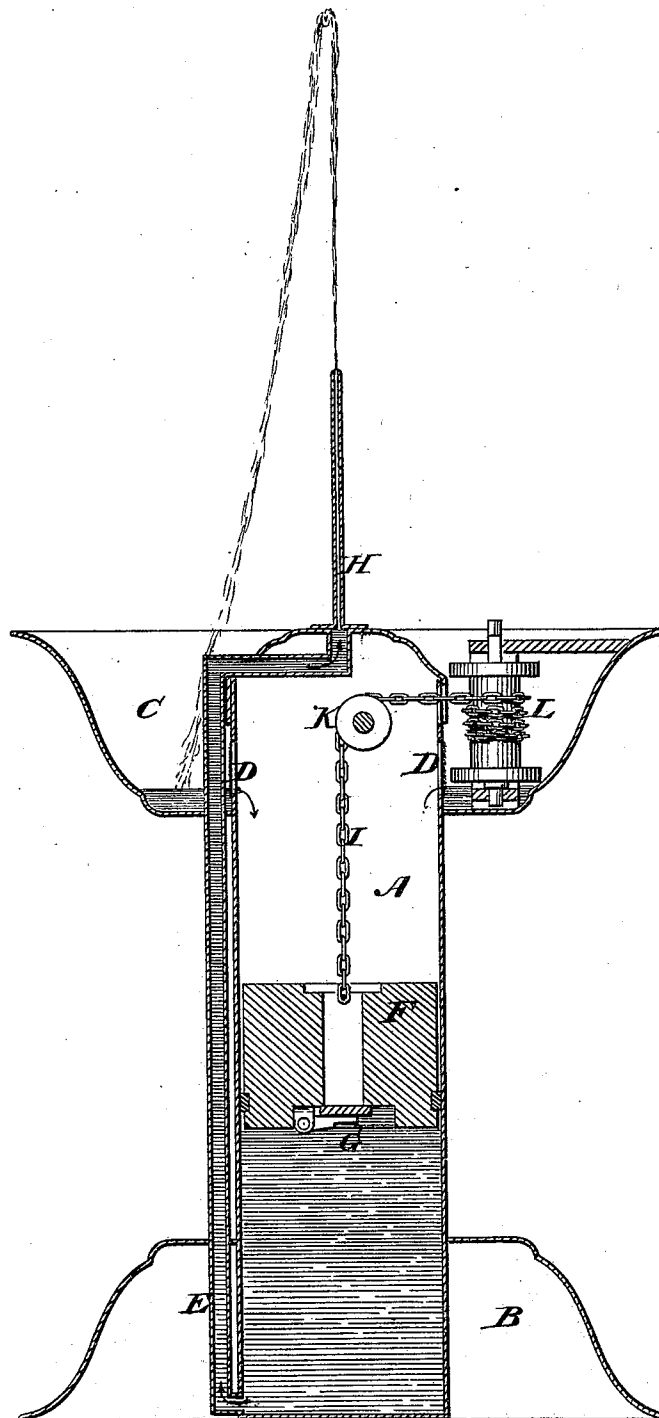


A. C. GOULD.
PORTABLE FOUNTAINS.

No. 179,451.

Patented July 4, 1876.



Witnesses
C. F. Brown.
C. H. Clark

Inventor.
Arthur C. Gould

UNITED STATES PATENT OFFICE.

ARTHUR C. GOULD, OF BROOKLINE, MASSACHUSETTS.

IMPROVEMENT IN PORTABLE FOUNTAINS.

Specification forming part of Letters Patent No. **179,451**, dated July 4, 1876; application filed June 17, 1876.

To all whom it may concern:

Be it known that I, ARTHUR C. GOULD, of Brookline, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Portable Fountains; and I do hereby declare that the following is a full, clear, and exact description thereof, which 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, which form a part of this specification.

This invention relates to an improved portable fountain for use in gardens, conservatories, theater-scenes, parlors, and other places which, when once filled with water and set in operation, affords a jet of water for a considerable time, and in which the same supply of water is used over and over again until it is exhausted by evaporation.

It consists in the combination of a hollow vertical cylinder, supported upon a suitable base, and having a suitable basin attached to its upper end for receiving the water escaping from the jet-tube, with openings in the same, through which the water flows to the cylinder; a weighted piston sliding in the cylinder, and provided with an opening through it, closed by a valve which opens downward, so as to open when the piston is raised up, and close when the piston descends; a pipe extending from the bottom of the cylinder, and terminating in a suitable jet-tube above the basin, and a means for raising the piston, as will hereafter be described.

The accompanying drawing is a vertical section of the apparatus.

A is the cylinder, which may be constructed of any suitable material, and may be ornamented as desired, and B is the base supporting the same, which may be of any form suitable for the purpose. C is the basin, attached to the top of the cylinder, which rises a slight distance above the bottom of the basin, and D D are openings in the cylinder, which openings may be covered by wire-gauze, through which the water in the basin flows into the cylinder. E is a pipe which communicates with the bottom of the cylinder, and extends

from the same outside the cylinder to the basin, where it is connected to a suitable jet-tube, H. F is a weighted piston, sliding in the cylinder, and having suitable packing for securing a tight joint. Extending through this piston is an opening which forms a communication with the upper and lower sections of the cylinder, and is closed by a valve, G, of any suitable form, so constructed as to open downward when the piston is raised up, and close tightly when the piston descends. Attached to this piston is a chain or cord, I, which passes over a pulley, K, mounted in suitable bearings in the top of the cylinder, and is wound upon a drum, L, in the basin.

The operation of the apparatus is as follows:

The piston is raised to the top of the cylinder by means of the drum and chain, and the cylinder then filled with water, which flows from the basin through the openings D D and valve G. The piston is then released, and immediately commences to fall slowly by its weight to the bottom of the cylinder, the valve G closes, and the water in the cylinder is forced through the pipe E to the jet-tube, from which it escapes in a jet of considerable height, which continues for a time, depending upon the size of the cylinder and weight of the piston, until the piston reaches the bottom of the cylinder.

If it is desired to have the fountain resume its play the weighted piston is raised to the top of the cylinder, the water above the piston will pass through the opening and valve G, which will open as the piston is raised, and when the weighted piston is again allowed to fall the jet will commence to play.

I have shown a drum, placed in the basin and operated by a winding-key, for raising the piston. This drum might be placed in the base of the fountain by using another pulley, and the chain or cord could be carried through a tube on the outside of the cylinder. Any suitable device may be used for raising the piston, and I do not wish to confine myself to the device shown and described.

This fountain may be made of any size, and in any ornamental form desired, and as its play will continue from a few minutes to several hours, and after having been once filled

with water requires no additional supply, it can be used for ornamenting gardens, conservatories, parlors, and other places.

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

The combination of the vertical cylinder A, basin C, connected to the cylinder by openings D D, pipe E, communicating with the bottom of the cylinder and extending to the basin, and having a suitable jet-tube connected

therewith, weighted piston F, opening in the same, valve G, and device for raising the piston, constructed and operating substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ARTHUR C. GOULD.

Witnesses:

CHAS. M. ROWLEY,
C. W. JENKS.