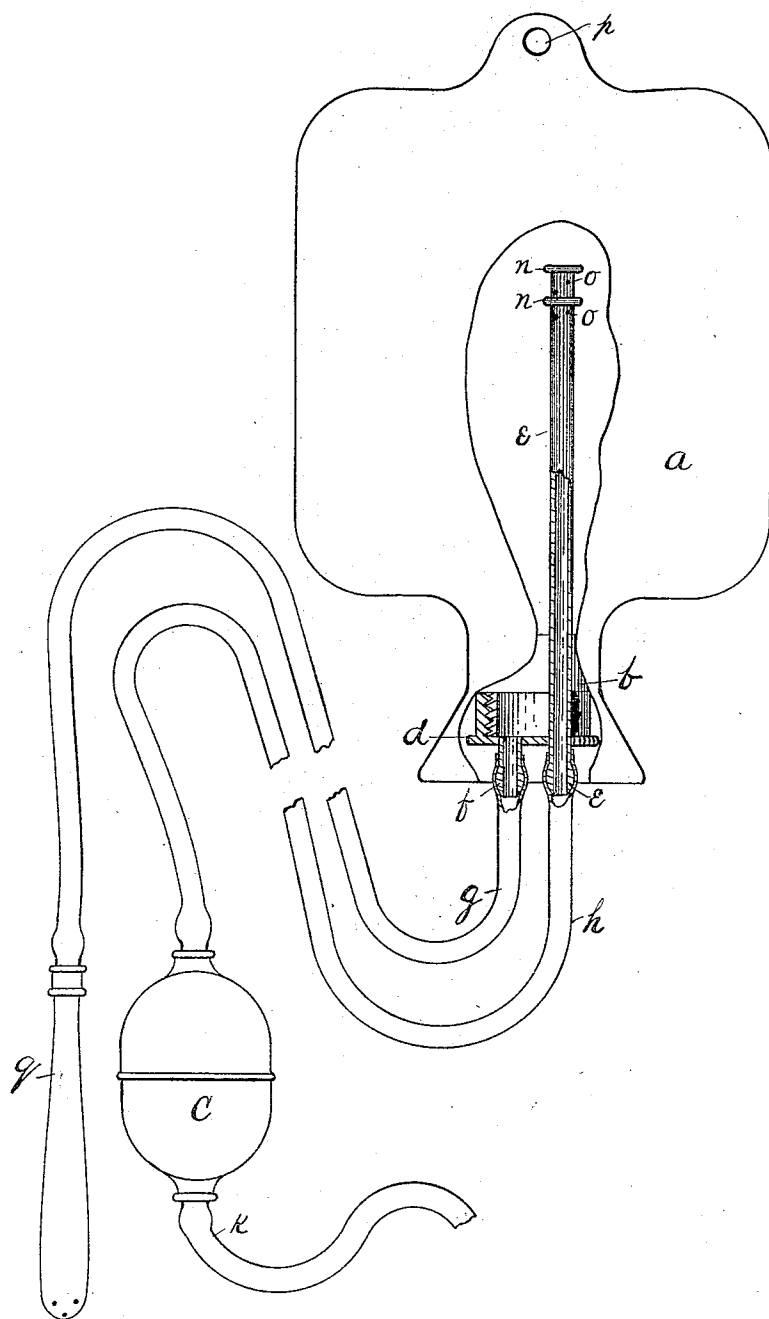


(No Model.)

H. B. NICKERSON.  
FOUNTAIN SYRINGE.

No. 511,790.

Patented Jan. 2, 1894.



Witnesses  
Fred A. Mason  
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Inventor  
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att'y.

# UNITED STATES PATENT OFFICE.

HIRAM B. NICKERSON, OF WEST STOUGHTON, ASSIGNOR OF TWO-THIRDS  
TO WILLIAM H. MILLIKEN AND EDWIN TROWBRIDGE, OF FRANKLIN,  
MASSACHUSETTS.

## FOUNTAIN-SYRINGE.

SPECIFICATION forming part of Letters Patent No. 511,790, dated January 2, 1894.

Application filed March 13, 1893. Serial No. 465,716. (No model.)

*To all whom it may concern:*

Be it known that I, HIRAM B. NICKERSON, a citizen of the United States, residing at West Stoughton, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Fountain-Syringes, of which the following is a specification.

The object of the invention is, first, to provide means whereby the jet of water from the syringe may be expelled with any desired degree of force, and second to provide means to keep up the supply of water in the bag, whereby the jet may be continuous for any length of time desired.

The accompanying drawing illustrates my invention, in which the figure represents a side view of my improved fountain syringe, with a portion of the side broken away, to show its construction.

*a*, represents a closed rubber bag, having the screw threaded nozzle *b*, in one end.

*d*, represents a screw cap, fitting on said nozzle, having its top provided with an air induction pipe *e*, reaching well into the interior of the bag *a*; and the water eduction pipe *f*. The inner end of the pipe *e*, is provided with orifices *o*, and fenders *n*. The outer ends of said pipes are adapted to receive the ends of the rubber tubes *g*, and *h*. The tube *h*, is provided with the rubber bulb *c*, having valves opening toward the bag *a*.

*k*, is a rubber tube, attached to the lower end of the bulb *c*.

In operation, the cap *d*, is removed, and the bag *a*, filled with water. The cap *d*, is then replaced, and the bag *a*, suspended by the flap *p*. The water then flows down through the pipe *g*, and out at the nozzle *q*. If more force to the jet of water, is desired, air is pumped into the bag *a*, by means of the bulb *c*, until such a pressure is obtained, as will give the desired force to the jet. If a longer continued jet of water is desired, than the bag *a*, will give with one filling, the end of the tube *k*, is immersed in a vessel of water, and water pumped into the bag *a*, by means of the bulb *c*.

I claim—

A fountain syringe, consisting of a closed bag of flexible material, provided with a screw-threaded nozzle; a screw threaded cap adapted to close said nozzle, and provided with a water eduction pipe, and an air, and water induction pipe; a rubber tube adapted to be connected with said eduction pipe and provided with a nozzle; a rubber tube adapted to be connected with said induction pipe, and provided with a collapsible bulb having valves, whereby a pressure of air is maintained within the bag, or the supply of water is kept up, all as shown and described.

HIRAM B. NICKERSON.

Witnesses:

HENRY W. MASON,  
JAMES C. HITCH.