A. D. Puffer,

Syringe.

No. 94,029. Patented Aug. 24. 1869.

Fig. 1.

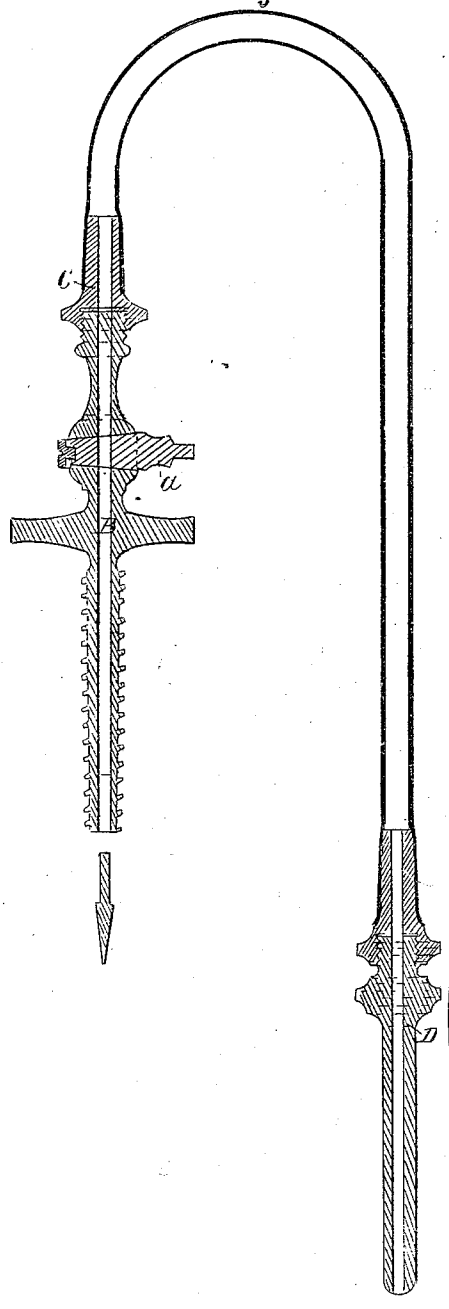
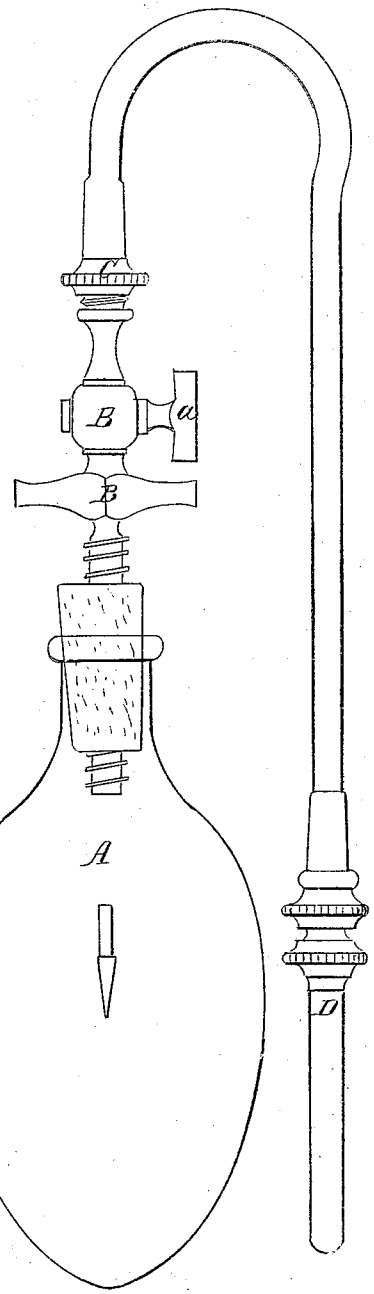


Fig. 2.



Witnesses.
Geo. A. Young.
E. H. Lewis.

Alvin D. Puffer.
by his Attorney.
Pollok

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

ALVIN D. PUFFER, OF SOMERVILLE, MASSACHUSETTS.

Letters Patent No. 94,029, *dated August* 24, 1869.

IMPROVEMENT IN THE APPLICATION OF CARBONATED WATERS IN MEDICINE AND SURGERY.

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

To all to whom these presents shall come:

Be it known that I, ALVIN D. PUFFER, of Somerville, in the county of Middlesex, and State of Massachusetts, have made an invention of certain new and useful Improvements in Carbonate-Liquid Injectors; and do hereby declare the following to be a full, clear, and exact description thereof, due reference being had to the accompanying drawing, making part of this specification, and in which—

Figure 1 is a longitudinal section of my invention.

Figure 2, a perspective representation of the apparatus connected with a bottle or other vessel.

The invention for which I desire to secure Letters Patent, is an improvement in the apparatus for injecting carbonate and other medicinal applications of liquids.

Heretofore instruments for this purpose have been very inconvenient, the carbonate being first enclosed in a rubber bag, with the arrangement of piston-springs and other complicated arrangements.

By this arrangement, as shown in the accompanying drawings, great convenience is attained, with certainty of action. It is very simple, never liable to be out of order, and is very cheap.

In the drawings, to which allusion has before been made as accompanying this specification, the bottle or other vessel charged with carbonate of liquid is represented at A, into the cork of which is screwed an ordinary champagne-faucet, B, except that its upper end is provided with a screw to receive the metallic end of the flexible tube C, the opposite end of which is fitted with a syringe-nozzle, or sprinkler D, of any required form.

The vessel charged with carbonate of liquid may be charged and transported or stored in any convenient vessel, being fitted with a cork. Whenever it is to be used, the faucet is screwed into the cork, and, by turning the cock *a*, the carbonate of liquid may be injected, or used to wash sores, wounds, or for any purpose desirable in medical practice.

Thus, by the use of my invention, the carbonate of liquid may be administered direct from the original package, without any complicated or inconvenient apparatus.

Claim.

I claim as my invention, and desire to secure by Letters Patent of the United States, as follows:

The attachment of the flexible hose C to the faucet B, in combination with the nozzle or sprinkler D and the vessel A, substantially and in manner as before described and explained.

A. D. PUFFER.

Witnesses:

H. G. PARKER,

EDWARD GRIFFITH.