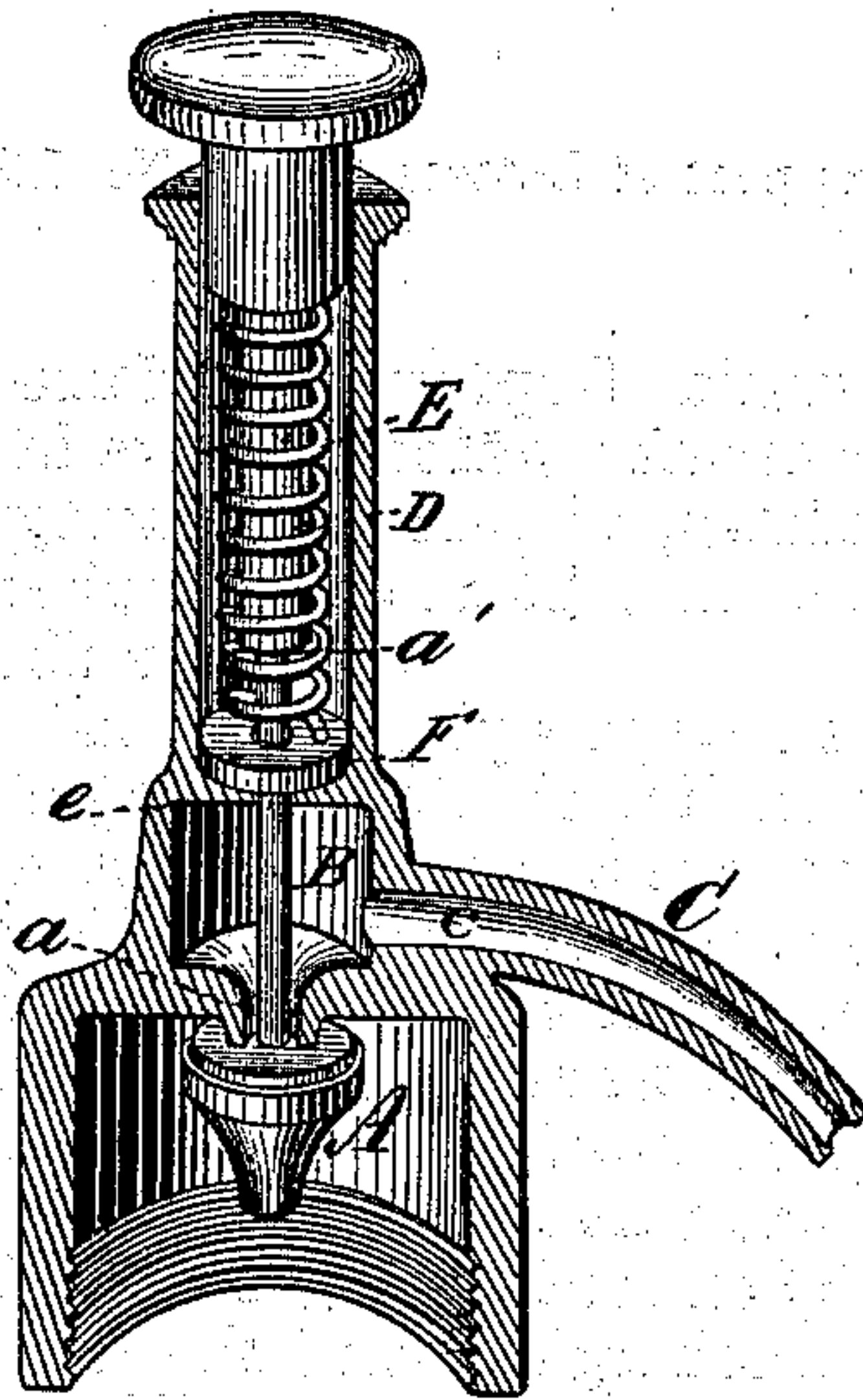


J. E. MILLIMAN.

Siphon-Bottles.

No. 129,852

Patented July 23, 1872.



Witnesses.

A. Ruppert
B. C. J. Gile

J. E. Milliman
Inventor.

D. P. Holloway & Co
Attys

UNITED STATES PATENT OFFICE.

JAMES E. MILLIMAN, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN SIPHON-BOTTLES.

Specification forming part of Letters Patent No. 129,852, dated July 23, 1872.

Specification describing certain Improvements in Siphon-Bottles, for aerated waters, invented by JAMES E. MILLIMAN, of Jersey City, in the county of Hudson and State of New Jersey.

This invention relates to the tops of siphon-bottles, in which the valve controlling the flow of the fluid and the discharge-nozzle are located; and my improvements consist in forming in such top an air-chamber, directly above the valve-opening, and with the nozzle opening from near its bottom, for the purpose of allowing the gas on first opening the valve to expand in this chamber, to modify somewhat the force with which the water is discharged from the bottle.

The drawing represents a sectional perspective of my improved top for siphon-bottles. Directly above the opening *a*, which is controlled by the valve *A* in the usual manner, an air-chamber, *B*, is formed, from near the bottom of which the discharge-aperture *c* of the nozzle *C* issues. As the valve is opened some of the gas will be confined in the upper part of this chamber, and by its elastic force to a considerable extent modify the force of the issuing current or stream of the water from the bottle, so that such water may be drawn off without too much ebullition. This air-chamber may be formed in the nozzle *C*, if

preferred. The spring *D*, which actuates the valve in closing the opening *a*, is arranged in a cavity, *E*, of the top, divided from the air-chamber *B* by a diaphragm, *e*. The valve-stem above this diaphragm has a shoulder at *a'*, and between this shoulder and the diaphragm *e* an elastic ring or washer, *F*, intervenes, either fastened to said shoulder or to the diaphragm. In opening the valve *A*, the shoulder *a'* of its stem comes down so as to compress the washer between it and the diaphragm, and form an air-tight joint between the two. In this manner, access to the chamber *E* of gas or water from the bottle, when the valve *A* is open, is positively prevented.

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

A cap for a siphon-bottle having an air-chamber, *B*, arranged in relation to the opening *a* in the valve-seat and the discharge-aperture *c* of the nozzle *C* substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

J. E. MILLIMAN.

Witnesses:

JOS. A. RAPHEL,
JOS. F. SPRINGER.