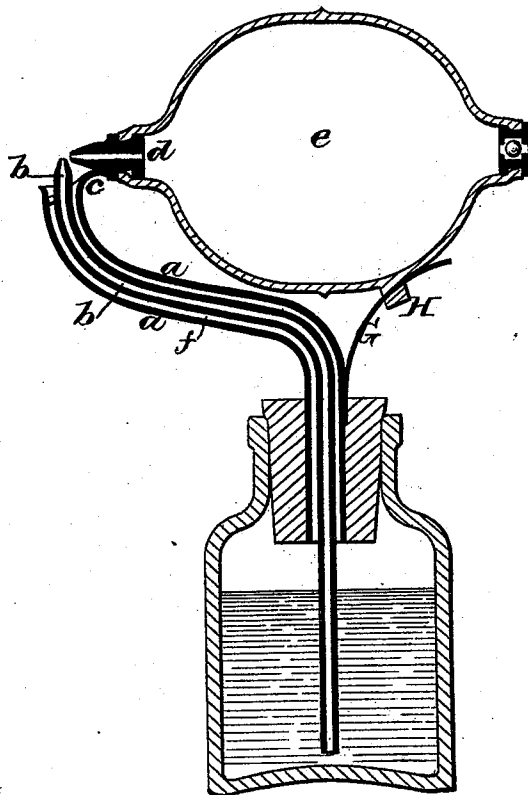


W. V. WALLACE.
ATOMIZER.

No. 173,194.

Patented Feb. 8, 1876.



Witnesses.

C. F. Brown
Sam^l M. Barton

Inventor.

Wm V Wallace

UNITED STATES PATENT OFFICE.

WILLIAM V. WALLACE, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO ALVAH LITTLEFIELD AND F. M. KEELER, OF SAME PLACE.

IMPROVEMENT IN ATOMIZERS.

Specification forming part of Letters Patent No. 173,194, dated February 8, 1876; application filed January 4, 1876.

To all whom it may concern:

Be it known that I, WM. V. WALLACE, of the city of Boston, county of Suffolk and State of Massachusetts, have invented an Improvement on an Atomizer; and I do hereby declare that the following is a full and exact description.

The object of my invention is to improve the manner of sustaining the air-chamber connected with an atomizer.

In an atomizer, convenience requires that the elastic bulb or air-chamber should be sustained by the vessel, as when connected by an elastic tube, when not in use, it is liable to get entangled with toilet articles, &c., as well as requiring the use of both hands to manipulate it.

If the bulb is connected only by one end being pressed into a metallic tube over the vessel, it often becomes disconnected, and the parts, in consequence, injured or broken; and when the bulb is sustained rigidly by arms connected at each of its ends, and is compressed in using, its movement is only lateral, instead of longitudinal and slightly lateral, which is its natural movement; and in consequence of this unnatural movement it is strained, soon splits, and becomes useless. An otherwise excellent atomizer, made in this manner, has been abandoned from the said result.

By attaching the elastic bulb, as shown in the annexed drawing, these several objections are overcome.

To this end my invention consists in the construction and arrangement of parts which I now proceed to describe, and point out in my claims.

I attach to the lower end of tube *a* a spring, *G*, which passes upward along the side opposite to the curve in tube *a*, curving in an opposite direction, and passing through the projection *H*, which I cause to be molded on the base of air chamber *e*, thus producing an elastic support. The opposite nozzle of air-chamber *e* is pressed over the metallic nozzle in the usual manner. By this form of construction the air-chamber *e* is maintained over the liquid-vessel in a simple, practical, and durable manner, admitting the atomizer to be safely and easily manipulated with one hand, and when the elastic bulb *e* is compressed the spring *G* allows a longitudinal and lateral displacement of the air-chamber *e*, which, being its natural movement, causes no injury to the same.

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

1. In an atomizer, in which the air-chamber is supported over the liquid-receptacle, the spring *G*, adapted to constitute an elastic support for one end of the air-chamber, the opposite end of said chamber being supported by the tube *a*, substantially as described, for the purpose specified.

2. The spring *G*, supported by the tube *a*, in combination with the elastic air-chamber *e*, having the elastic projection *H*, all arranged and operating substantially as described.

WILLIAM V. WALLACE.

Witnesses:

GEO. CUTTS,
C. F. BROWN.