

C. WEED.
Atomizers.

No. 204,469.

Patented June 4, 1878.

Fig. 1.

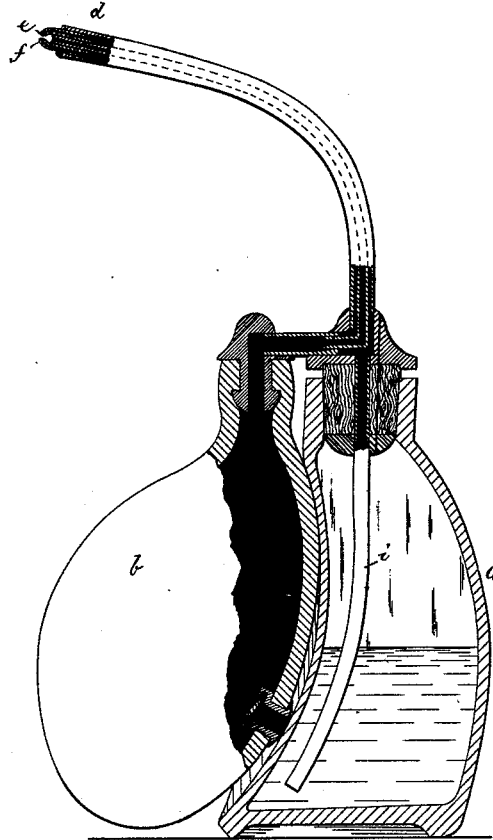
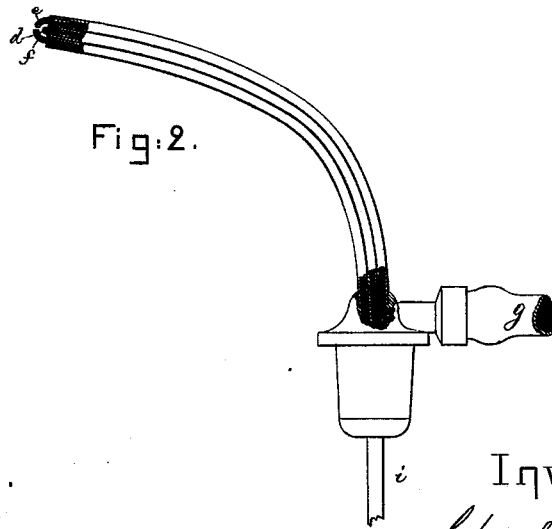


Fig. 2.



Witnesses.
L. H. Connor,
N. E. Whitney.

Inventor,
Charles Weed,
by Crosby & Morgan, Attys

UNITED STATES PATENT OFFICE.

CHARLES WEED, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO DAVIDSON RUBBER COMPANY, OF SAME PLACE.

IMPROVEMENT IN ATOMIZERS.

Specification forming part of Letters Patent No. 204,469, dated June 4, 1878; application filed May 3, 1878.

To all whom it may concern:

Be it known that I, CHAS. WEED, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Atomizers, of which the following is a specification:

This invention relates to improvements in atomizers; and consists in an atomizer the blast-pipe of which has combined with it two or more discharges or fluid-outlets, whereby the spray is increased, and its direction of motion is placed more under control.

Figure 1 of the drawing represents in partial section an atomizer, showing one embodiment of my invention, the rubber bulb being at the side of the bottle; and Fig. 2, a detail of a modification thereof.

In Fig. 1 the bottle *a*, bulb *b*, tube *c*, blast-pipe or opening *d*, and discharge *e* are of usual construction and operation, and need not, therefore, be further described.

To render an atomizer capable of discharging a larger amount of liquid than it could do with the usual single discharge, and thereby increase its efficiency for many operations in surgery and practice, and consequently its value, I provide next the blast-passage one or more auxiliary discharges, *f*, which permits the forming into spray of an increased quantity of liquid at each operation of the bulb.

The sprays from two discharges meet beyond the end of the blast-pipe, and, so combined, move together.

In Fig. 2 the discharges *e f*, in communication with the pipe *i* in the bottle, are made as continuations of separate pipes, extending backward and into the stopper parallel with the blast-pipe.

Fig. 2 shows a modified plan, wherein the bulb to be placed at the side of the bottle or fluid-holder is omitted, a proper bulb, to be grasped by the hand, being connected with pipe *g*.

It is obvious that more than two discharges may be arranged about the blast *d*.

I claim—

In an atomizer, a blast pipe or tube, combined with two or more liquid-discharges projecting beyond the end of the air-discharge or blast-pipe, substantially as and for the purpose described.

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

CHARLES WEED.

Witnesses:

G. W. GREGORY,
N. E. WHITNEY.