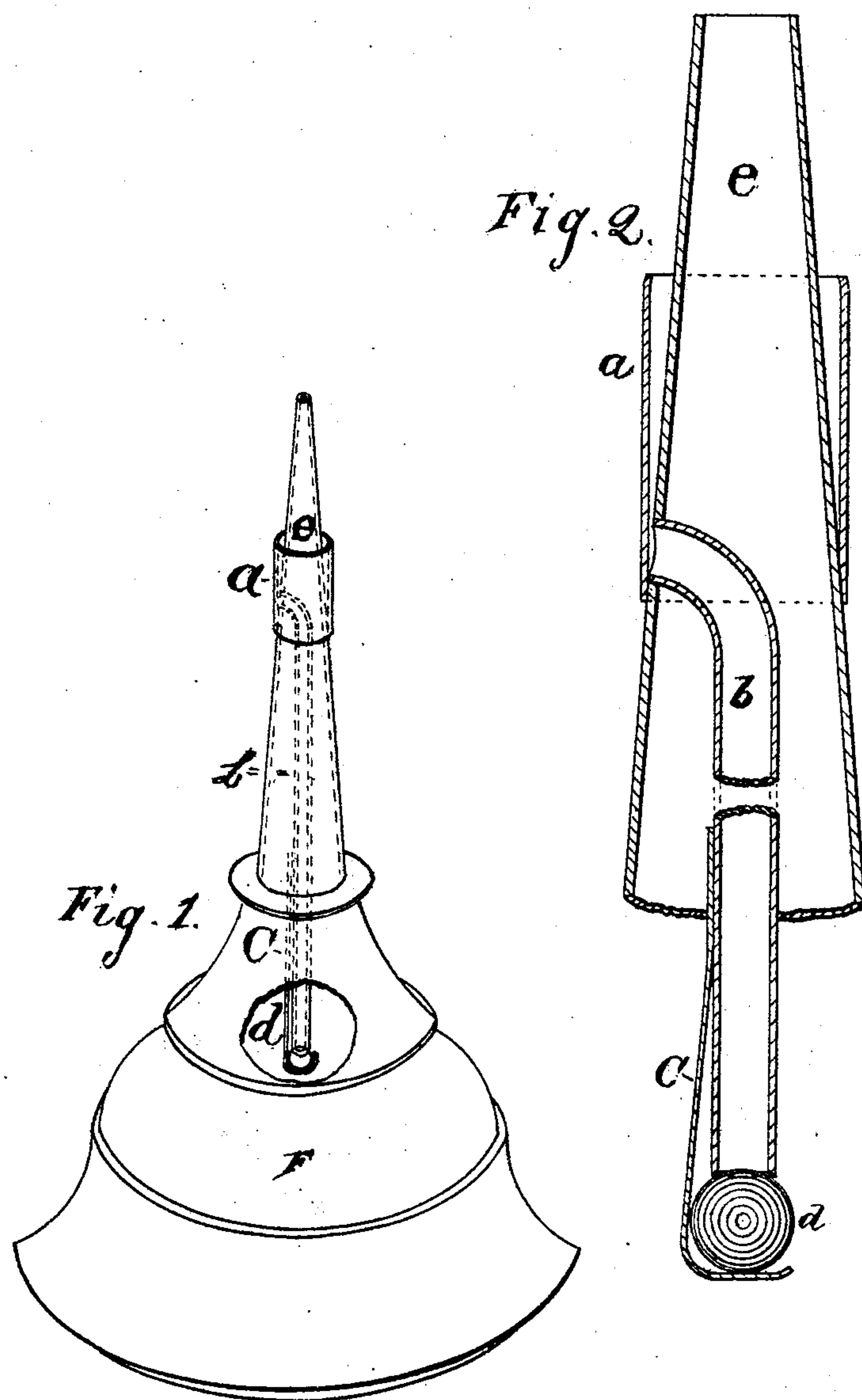


A. W. ELMER.
Hand-Oilers.

No. 146,998.

Patented Feb. 3, 1874.



WITNESSES
H. W. Bosworth
O. O. Elmer

INVENTOR.
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UNITED STATES PATENT OFFICE.

ALPHEUS W. ELMER, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN HAND-OILERS.

Specification forming part of Letters Patent No. **146,998**, dated February 3, 1874; application filed July 11, 1873.

To all whom it may concern :

Be it known that I, ALPHEUS W. ELMER, of Springfield, Hampden county, Massachusetts, have invented an Improvement in Hand-Oilers, of which the following is a specification:

The object of my invention is to construct an oiler so that no oil can run down from the nozzle on the outside, also to have it perfectly vented; and, at the same time, the oil can be ejected from the nozzle by pressing in the bottom.

To accomplish this, I take an oiler, F, as is shown in the accompanying drawing by Figure 1, and perforate the nozzle *e* about two-thirds of the distance from its base to the top for the vent-tube *b*, which I fasten in its place with solder. I then construct the cup *a* of suitable size, with parallel sides, so that the lower end will come onto the nozzle below the upper end of the vent-tube *b*, thus forming a conductor for the oil should any run down from the outlet of the nozzle, as is usually the case while using. The vent-tube *b* I countersink in the lower end, so as to form a valve-seat, into which I place the ball or puppet-valve *d*, which I hold in place by the thin strip of metal, *c*, which is soldered to the tube *b*, and bent, at its lower end, around and under the valve *d*, holding it into the seat so that it cannot fall out, and yet loose enough to admit air between the valve and seat.

The cup *a*, tube *b*, and the strip *c* for holding the valve *d*, I make of tin or brass, or any suitable metal for the oiler used, all to be fastened in place with solder.

In using the oiler where it is necessary to eject oil into any place, it works the same as if there was no vent, the valve closing it instantly on pressing in the bottom. If only a drip is wanted, it will take air until all of the oil has run out by holding the oiler in an inverted position, thus making it valuable to cotton and woolen manufacturers, and also to use to oil sewing-machines, or any other business where cleanliness is required, as no oil can get below the cup *a*, as the edge comes so near to the nozzle *e* that should there be a drop of oil in the cup when inverted, it will run off on the nozzle, instead of running over the edge of the cup and down on the outside of the oiler.

I do not claim the nozzle *e* nor the oiler F; but

What I do claim is—

The puppet-valve *d*, applied to the vent-tube *b*, in combination with the conducting-cup *a*, attached to the nozzle *e* of the oiler F, constructed and arranged substantially as set forth in the above specification.

A. W. ELMER.

Witnesses:

JOSEPH M. ROSS,
O. O. ELMER.