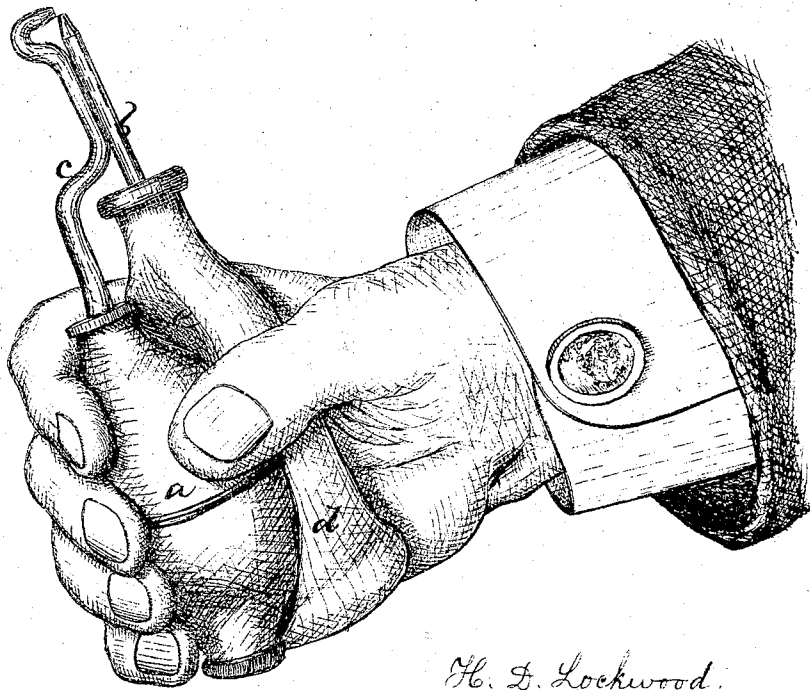
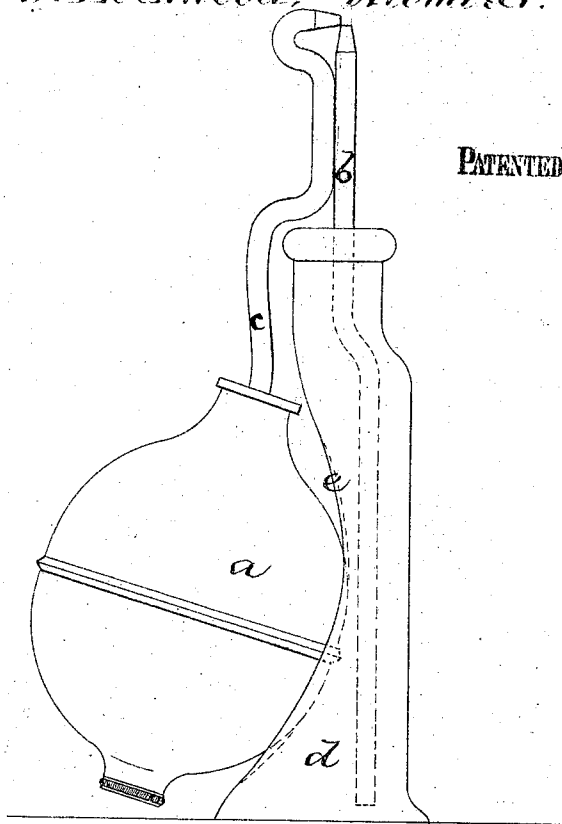


H. D. Lockwood, Atomizer.

117651

PATENTED AUG 1 1871



Witnessed.
M. W. Frothingham.
G. W. Kidder.

H. D. Lockwood.
By his Atty.
Crowly & Gould.

UNITED STATES PATENT OFFICE.

HAMILTON D. LOCKWOOD, OF CHARLESTOWN, MASSACHUSETTS.

IMPROVEMENT IN ATOMIZERS.

Specification forming part of Letters Patent No. 117,651, dated August 1, 1871.

To all whom it may concern:

Be it known that I, HAMILTON D. LOCKWOOD, of Charlestown, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Atomizers; and I do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

My invention relates to the construction of hand-operated atomizers, for applying medicated liquids for inhalation, and for volatilizing perfumed liquids.

Such atomizers are now very generally made with the liquid-containing cup or bottle, the atomizing-tubes, and the air-supplying flexible bulb or pump, all so connected that the atomization can be readily effected by the person for whom the application is made; but they have always been so connected that there can be relative movement between the bulb and the bottle, which possibility of movement prevents the instrument from being held firmly in position during the process of atomization.

In my invention I correct this difficulty by so forming and connecting the liquid-cup or bottle and the bulb that they are both grasped in the hand in working the instrument, they being side by side, and of such relative form that the palm of the bulb-operating hand incloses the bottle while the fingers and thumb embrace the bulb.

It is such a construction that constitutes my invention, and the drawing represents an instrument embodying the improvement.

a denotes the bulb; *b c*, the atomizing-tubes; and *d*, the cup or bottle containing the liquid to be atomized, the fluid-tube *b* extending down into the bottle, and the air-tube *c* being attached to the bulb in the usual manner. The bulb *a* may be shaped as in other atomizing apparatus, but the bottle *d* I prefer to make of such shape that the adjacent side of the bulb shall fit to it, as seen in the drawing, the bulb being placed against the bottle, and the bottle having a recess, *e*, formed in one side for receiving the side of the bulb.

It will be obvious that by this construction the atomizing-tubes can be held with perfect steadiness, the tubes being directly and rigidly connected with the bottle, and the bottle itself being grasped in the hand, which, while holding the bottle, also operates the bulb.

I claim—

1. A liquid-containing cup or bottle for an atomizer, having a recess or cavity in its side, substantially as and for the purpose described.

2. The combination, with the bulb and atomizing-tubes, of a cup or bottle having a recess or cavity in the side, substantially as shown and described.

H. D. LOCKWOOD.

Witnesses:

FRANCIS GOULD,
M. W. FROTHINGHAM.