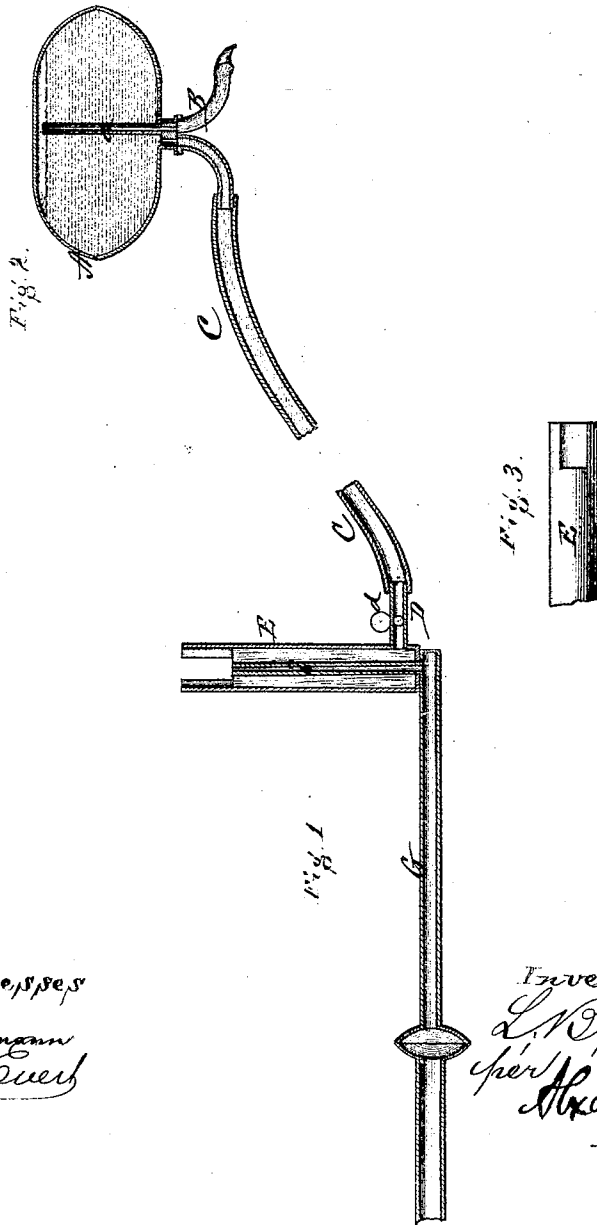


L. B. Wilson,

Blow Pipe.

No. 101,692.

Patented Apr. 5, 1870.



Witnesses
F. Lehmann
C. A. Querk

Inventor.
L. B. Wilson.
per Alexander Mason
Atty

United States Patent Office.

L. B. WILSON, OF CAMBRIDGE, OHIO.

Letters Patent No. 101,692, dated April 5, 1870.

IMPROVEMENT IN BLOW-PIPES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, L. B. WILSON, of Cambridge, in the county of Guernsey and in the State of Ohio, have invented certain new and useful Improvements in Blow-Pipes; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a blow-pipe, for dental and jewelers' soldering purposes.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a longitudinal vertical section of the wick-tube, with the blow-pipe;

Figure 2 is a longitudinal vertical section of the alcohol-reservoir, with connecting-tube; and

Figure 3 is a side view of the wick-tube.

A represents the alcohol-reservoir, provided in the center of its bottom with an opening, in which is screwed a crow's-foot, B, upon which the reservoir rests.

A tube, *a*, passes upward, through the rest B, to near the top of the reservoir A, so as to admit air on top of the alcohol.

One of the feet of the rest B is hollow, and connected by a flexible tube, C, with a small tube, D, extending from the side of the wick-tube E.

The wick is inserted in the wick-tube so as to allow the tube to extend a suitable distance above the wick,

and this projecting part of the tube is slotted on one side, as shown in figs. 1 and 3.

A small tube, *b*, connected with the blow-pipe G, extends up through the center of the wick, whereby the full force of the flame is taken in producing a far greater heat with less blowing than other blow-pipes now in use.

The cylinder or wick-tube E, by projecting out over the wick on the upper side, prevents the flame from blazing up out of the way of the tube *b*, through which the air passes.

The amount of alcohol supplied to the wick is regulated by the set-screw *d* in the tube D.

Having thus fully described my invention,

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

1. The cylinder or wick-tube E, constructed as described, so as to extend above the top of the wick, substantially as and for the purposes herein set forth.

2. The arrangement of the tube *b* of a blow-pipe within the center of the wick in the cylinder E, substantially as and for the purposes herein set forth.

3. The combination and arrangement of the reservoir A, rest B, with tube *a*, flexible pipe C, pipe D, with set-screw *d*, cylinder E, tube *b*, and blow-pipe G, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand and seal this 30th day of December, 1869.

L. B. WILSON. [L. s.]

Witnesses:

W. A. RAINEY,
S. H. SAWHILL.