(No Model.)

R. S. PEABODY.

ALCOHOL BLOWPIPE LAMP.

No. 560,748. Patented May 26, 1896.

Fig. 2

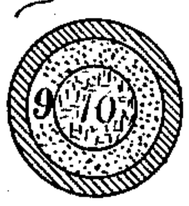
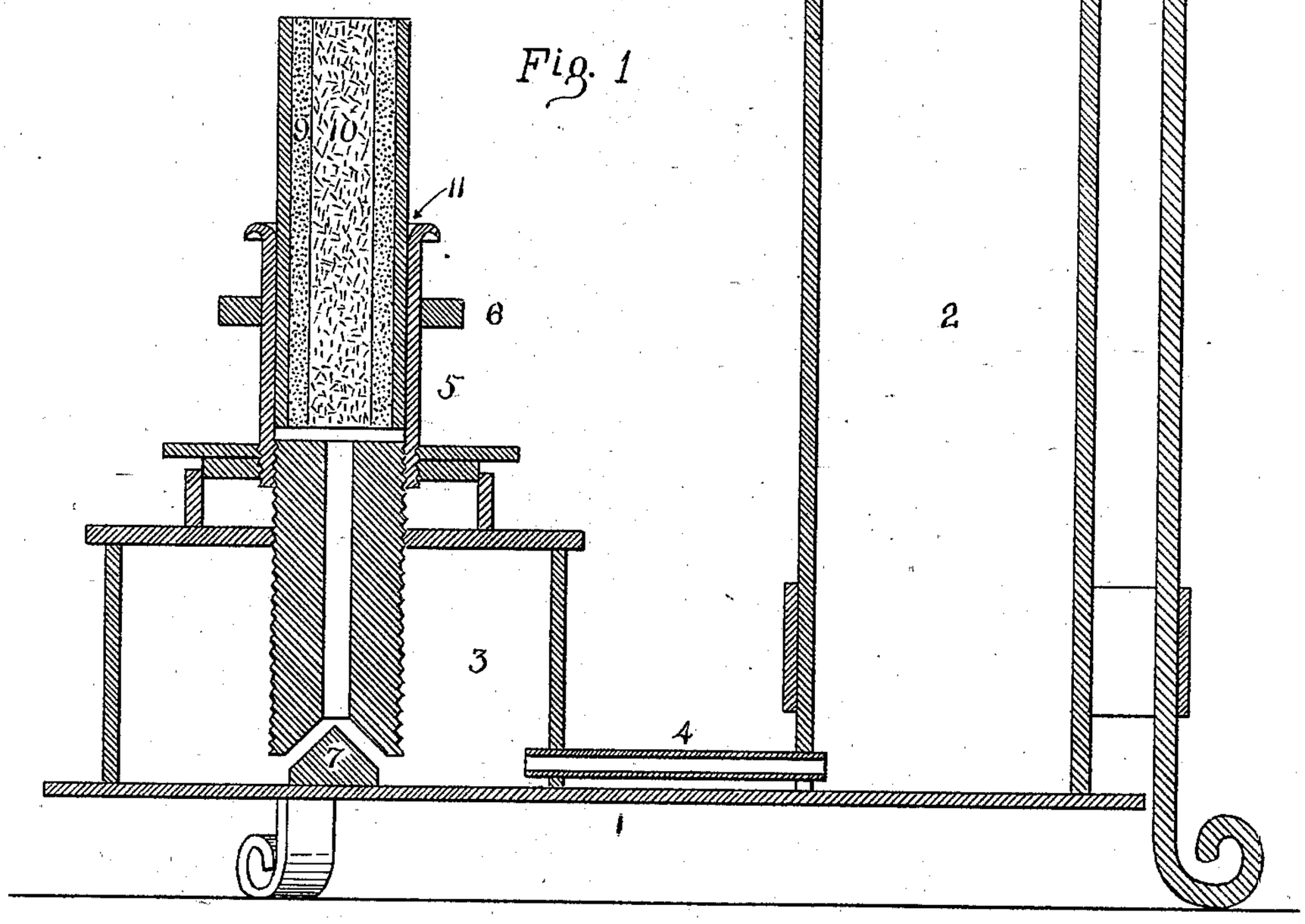


Fig. 1



WITNESSES:

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ROBERT SINGLETON PEABODY, OF PHILADELPHIA, PENNSYLVANIA.

ALCOHOL BLOWPIPE-LAMP.

SPECIFICATION forming part of Letters Patent No. 560,748, dated May 26, 1896.

Application filed May 11, 1894. Serial No. 510,853. (No model.)

To all whom it may concern:

Be it known that I, ROBERT SINGLETON PEABODY, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Alcohol Blowpipe-Lamps, of which the following is a specification.

One object of my invention is to provide efficient and convenient means for interrupting or completing a supply of alcohol or other inflammable material to the lamp-wick, whereby the lamp may be held in inclined or partially-inverted position for use with a blowpipe without danger of the escape of fluid through the wick-tube.

Another object of my invention is to protect a cotton or analogous wick from burning and forming charred projections that would, if present, interfere with the advantageous use of a blowpipe.

My invention consists of the improvements hereinafter fully described, and particularly referred to in the claims.

Referring to the drawings, Figure 1 illustrates, partly in section and partly in elevation, a lamp embodying features of my invention; and Fig 2 is a transverse sectional view of my improved wick.

Referring to the drawings, 1 is a base provided with a reservoir 2 and a supply-chamber 3, communicating with each other through a pipe 4.

5 is a wick-tube screwed into the top wall of the supply-chamber 3, and provided with a milled head 6, by means of which it may be rotated.

7 is a plug mounted in the chamber 3 and adapted to penetrate and close the lower end of the wick-tube when the latter is screwed down and to clear the lower end of the wick-tube when the latter is screwed up.

8 is a vent-and-stopper screw inserted into one of the walls of the reservoir 2 and adapted when screwed down to preclude the admission of air thereto, whereby fluid is prevented from entering the chamber 3, and to permit of the entrance of air when screwed up, whereby fluid is permitted to flow freely into said chamber. Moreover, this screw 8 may be entirely removed to permit of the refilling of the reservoir 2.

9 is a sheet of asbestos wholly inclosing the sides of a core of cotton or analogous material 10. These parts 9 and 10 comprise my improved wick, and the asbestos envelop 9 prevents the cotton or analogous wicking 10 from burning, whereby the formation of charred projecting pieces, such as would interfere with the use of a blowpipe, is avoided, while at the same time the wicking 10 insures an ample supply of alcohol or other inflammable material to the flame.

The mode of operation of the hereinabove-described lamp is as follows: Whenever it is necessary or desirable to hold the lamp in inclined position for use in connection with a blowpipe, the supply of fluid to the wick may be accurately controlled and, if necessary, wholly checked by the simple operation of turning the milled head 6, which is in close proximity with the fingers of the operator. If a small quantity of the fluid should accidentally escape from the wick-tube, it will, when the lamp is turned upright, collect in the cup 11 without reaching the hands of the operator. Moreover, the supply of fluid may also be controlled and, if necessary, checked by means of the screw 8, which may be adjusted before the lamp is taken in hand for use with a blowpipe.

When the lamp is to be lighted, or as often as is necessary, the wick 10 is pulled up so as to project beyond the metal tube by means of a pin or in any preferred manner, and inasmuch as the wick 10 is secured or attached to the asbestos envelop 9 it follows that the latter is also pulled up and prevents the cotton or analogous wicking 10 from burning and forming charred projections that would interfere with the use of a blowpipe, as has been already described.

Having thus described the nature and objects of my present invention, I declare that what I claim as new, and desire to secure by Letters Patent, is—

1. A blowpipe-lamp, comprising a reservoir provided with a vent-and-stopper screw, a supply-chamber communicating with the

reservoir and provided with a plug, and a revoluble wick-tube screwed into the supply-chamber and having its inner end adapted for engagement with and disengagement from said plug, substantially as described.

2. A blowpipe-lamp, comprising a supply-chamber provided with a plug, and a revoluble wick-tube screwed into one of the walls of said chamber and adapted for engagement with and disengagement from said plug, substantially as described.

In testimony whereof I have hereunto signed my name.

ROBERT SINGLETON PEABODY.

In presence of—
CHARLES B. PEABODY,
A. B. STOUGHTON.