O. P. DAVIS.

BLOWPIPE.

APPLICATION FILED JUNE 11, 1909.

948,875.

Patented Feb. 8, 1910.

Fig. 1.

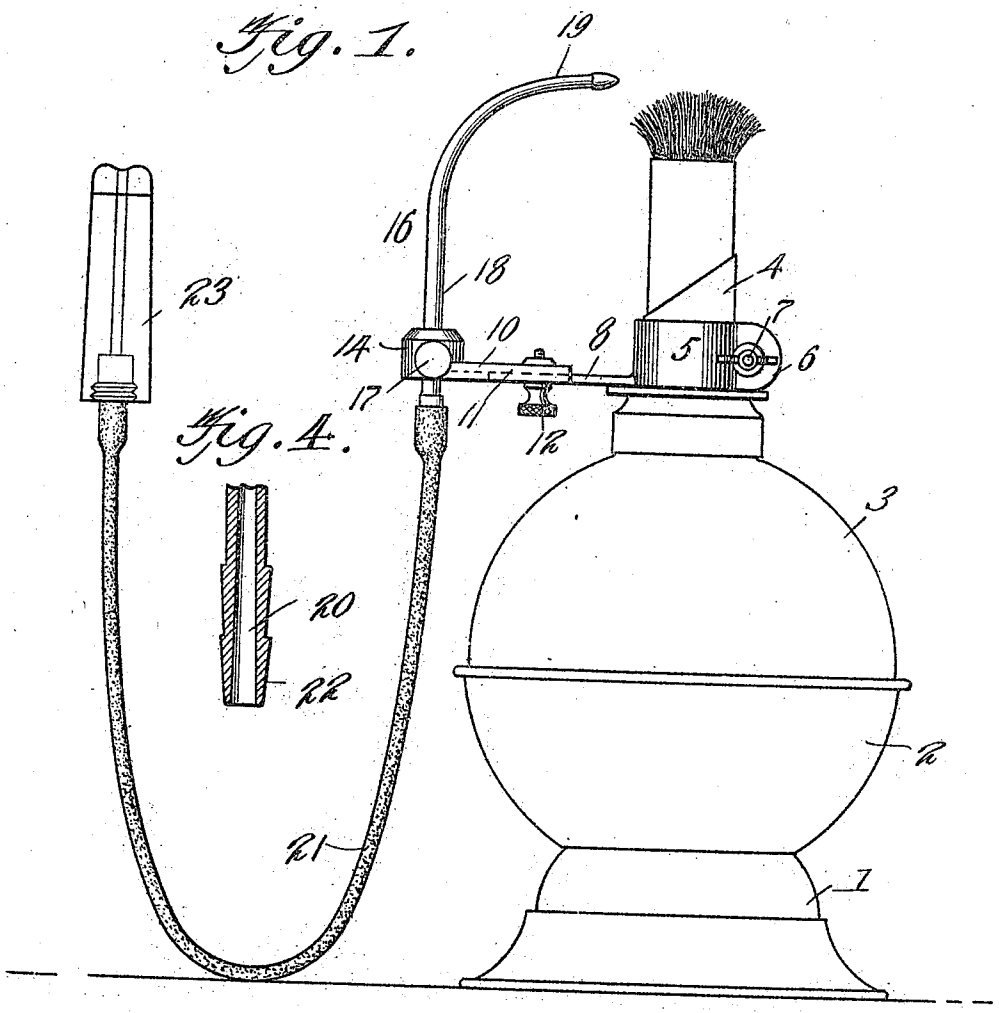


Fig. 4.

Fig. 2.

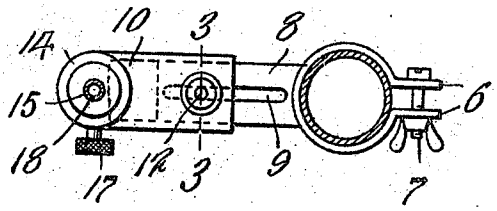
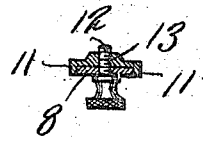


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

OLIVER P. DAVIS, OF AULT, COLORADO.

BLOWPIPE.

948,875. Specification of Letters Patent. Patented Feb. 8, 1910.

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To all whom it may concern:

Be it known that I, OLIVER P. DAVIS, a citizen of the United States, residing at Ault, in the county of Weld and State of Colorado, have invented new and useful Improvements in Blowpipes, of which the following is a specification.

This invention relates to blow pipes, and the object is to provide means whereby a needle or brush flame can be obtained at the will of the operator.

A still further object of the invention resides particularly in a clamp adapted to be connected with the burner tube of the lamp and provided with a horizontally adjustable member with which is connected for vertical adjustment a blast nozzle which latter is operatively connected with a flexible tube which carries at one end a mouth piece which may be held in the mouth of the operator of the device whereby it may be blown through to eject from the nozzle the desired air blast.

The above mentioned and other objects are attained by the construction, combination and arrangements of parts, as disclosed on the drawing, set forth in this specification, and particularly pointed out in the appended claim.

In the drawing, forming a portion of this specification and in which like numerals of reference indicate similar parts in the several views:—Figure 1 is a side elevation of the blow pipe. Fig. 2 is a detail horizontal section taken through the burner tube. Fig. 3 is a detail section taken on the line 3—3 of Fig. 2. Fig. 4 is a detail vertical section taken through a portion of the blast nozzle.

The device herein shown consists of a base member 1 which supports a substantially semi-spherical socket member 2 in which is removably mounted a spherical lamp 3. The lamp 3 may be of any suitable construction but is herein shown as being provided with a vertically disposed wick tube 4. A spring clamp 5 surrounds a portion of the wick tube and is provided with a pair of spaced ears 6 which receive a clamping bolt 7. When the bolt is disengaged from the ears 6 it will be seen that they can be expanded conveniently and removed from the said wick tube. The clamp 5 is provided with a horizontally disposed bracket plate 8 in which is formed a longitudinally extending slot 9. A member 10 is mounted upon the bracket plate and is provided with a pair of longitudinally disposed depending flanges 11 which straddle the edge portions of the bracket plate 8 as particularly shown in Fig. 3. A set screw or adjusting member extends through the slot 9 in the bracket plate, and as shown the exteriorly threaded shank 12 of the screw is adjustably engaged in a correspondingly formed passage 13 in the member 10. The member 10 is provided at its outer end with a head 14 in which is formed a vertical passage 15.

A blast nozzle 16 is shown particularly in Fig. 1 of the drawing and is adjustable vertically in the passage 15 formed in the head 14, a set screw 17 being employed for holding the nozzle in its adjusted position. The nozzle 16 is of tapered construction throughout its length and preferably comprises a vertical portion 18 and an outwardly extending curved portion 19. A tapered passage 20 is formed in the blast nozzle and communicates at its lower end with a flexible tube 21. One end of the tube 21 is removably connected with the head portion 22 of the blast nozzle, the other end of said tube is connected in any suitable manner with a mouth piece 23. The construction of the blast nozzle is such that the passage at the extreme outer extremity of the nozzle is very small in comparison to the size of the passage at the lower end of the nozzle whereby air delivered into the nozzle will be discharged therefrom in a fine way.

The construction of the blow pipe herein described is such that the operator can hold the mouth piece 23 in his mouth, thus giving the operator the free use of both hands in the handling of the article to be operated upon. The blast nozzle as hereinbefore stated may be adjusted vertically or horizontally and may be adjusted at the will of the operator to produce the desired flame.

I claim:—

In a blow pipe, a wick tube, a clamp removably engaged with the wick tube and provided with a horizontally disposed bracket plate, said bracket plate having a longitudinally disposed slot formed therein, an adjustable member mounted upon the bracket plate and provided with spaced depending flanges adapted to straddle the side edges of the bracket plate, a set screw carried by the said adjustable member and slidable in the slot formed in the bracket

plate, a tapered blast nozzle carried by the member and provided with a curved upper end portion which is directed toward the said wick tube, said blast nozzle being arranged for vertical adjustment, means upon the said adjustable member adapted to be engaged with the blast nozzle to hold the same in its adjusted position, and a flexible mouth piece carried by the tube and connected with the said blast nozzle.

In testimony whereof I affix my signature in presence of two witnesses.

OLIVER P. DAVIS.

Witnesses:
R. JEREMANEN,
J. M. MOORE.