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J. A. WILLIAMSON

2,826,904

TORCH LIGHTER

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Fig. 1.

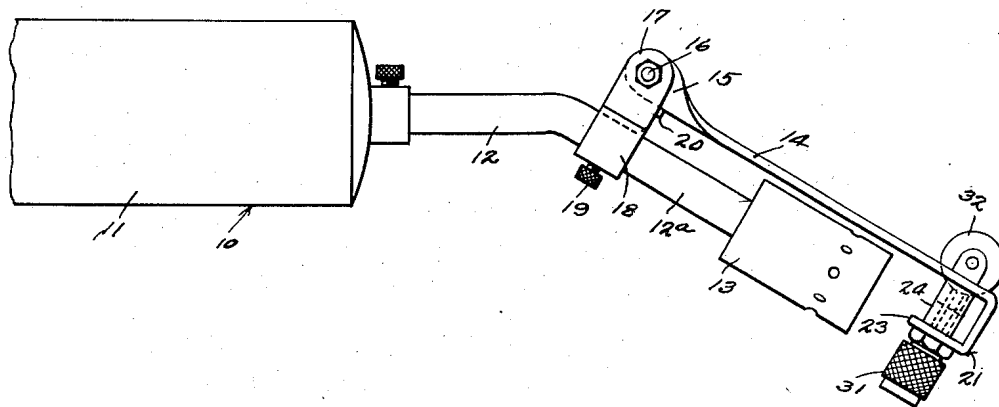
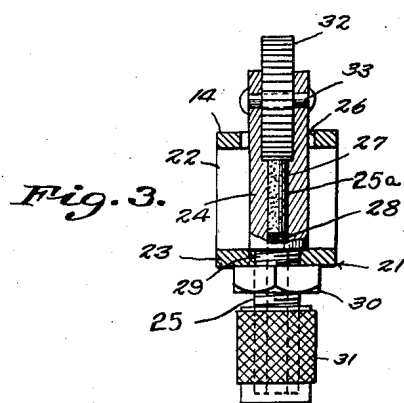
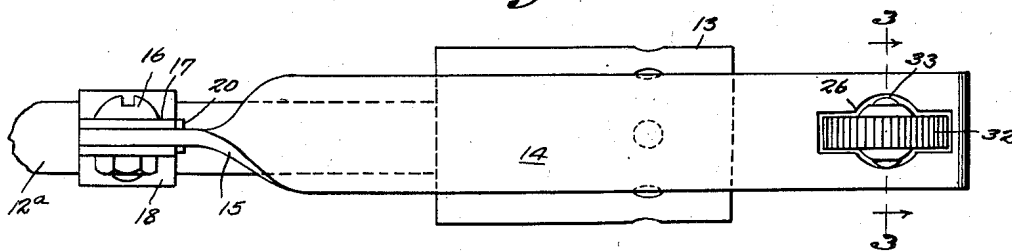


Fig. 2.



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2,826,904

TORCH LIGHTER

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1 Claim. (Cl. 67—20.1)

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This invention relates to torch lighters. An object of this invention is to provide an improved lighter for a gas torch which includes a flint engaged by an abrading wheel, and a pivoted support for the device so that after the torch is lighted the lighter may be swung to a rear inoperative position.

Another object of this invention is to provide a gas torch lighter which may be produced as an attachment for torches and may be mounted on the present construction of torches without change in the construction of the torches.

A further object of this invention is to provide a gas torch lighter which includes a clamp engageable with the gas discharge tube for attaching the supporting arm to the gas discharge tube whereby the lighter may be adjustably mounted for lengthwise adjustment relative to the burner nozzle.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts, hereinafter more fully described and pointed out in the claim, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawing:

Figure 1 is a detail side elevation partly broken away of a torch of conventional construction according to an embodiment of this invention.

Fig. 2 is a plan view of the device.

Fig. 3 is a sectional view taken on line 3—3 of Fig. 2.

Referring to the drawing, the numeral 10 designates a torch of conventional construction which includes a container 11 within which a volatile, pressurized fluid is adapted to be positioned. The container 11 has extending therefrom an obtusely angled pipe 12 and a burner 13 is carried by the outer end of the pipe 12.

In order to provide a means whereby the burner 13 may be easily and quickly lighted, I have provided an elongated arm or bar 14 which is provided at its inner or rear end with a twisted portion 15. The rear end 15 of arm 14 is pivotally mounted on a bolt 16 which extends between a pair of ears 17 formed as part of a clamping band 18. The band 18 engages about the pipe 12 and the band 18 may be secured in adjusted position lengthwise of the outer portion 12^a of the pipe 12 by means of a set screw 19. The set screw 19 is threaded through the band 18 and bears against the pipe section 12^a. A stop lug 20 is carried by one end of the ears 17 and is adapted to engage beneath the rear end 15 of

the arm 14 so as to hold the arm 14 spaced slightly from the burner 13.

The outer end of the arm 14 is provided with an L-shaped extension 21 which includes a right-angle side 22 extending from the arm or bar 14 and a second side 23 which extends rearwardly and in parallel relation with arm 14. A fork 24 having a threaded stem 25 is secured to the side 23 of L-shaped member 21 and the upper end of block 24 extends through an opening or slot 26 which is formed adjacent the outer end of arm or bar 14. A flint 27 is slidably mounted in a bore 25^a extending through stem 25 of fork 24 and is constantly urged outwardly or upwardly by means of a compression spring 28. The stem 25 of fork 24 extends through an opening 29 formed in the side 23 and a nut 30 threaded in the stem 25 tightly secures the fork 24 to the side 23 of L-shaped member 21. A cap 31 is mounted on the lower end of the stem 25 and covers up the usual adjusting screw against which the spring 28 abuts, and which closes the lower end of the bore 25^a. An abrading wheel 32 is rotatably mounted on a shaft 33 disposed between the arms of the fork 24 and the wheel 32 bears against the flint 27. The slot 26 is of a shape to provide for projection of the wheel 32 through the outer portion of arm or bar 14 with rotation of the wheel 32, by means of a thumb or finger.

In the use of this lighter the device is mounted on the gas conveying or discharge tube 12 rearwardly of the burner 13. The correct position of the lighter with respect to the burner 13 is found by lengthwise adjustment of clamp 18 on outer pipe section 13_a. In the operative position of the device, the arm 14 extends over the burner 13, as shown in Figs. 1 and 2, so that the spark generated by operation of abrading wheel 32 will be directed forwardly toward the open end of the burner 13. When the burner 13 is lighted bar 14 is swung upwardly and rearwardly in a position away from the front end of burner 13.

This device may be constructed as an attachment for conventional torches and can be easily and quickly mounted by means of the clamp 18.

What is claimed is:

A lighter for attachment to a torch having a nozzle, comprising an elongated arm having a slot in the outer end thereof, a clamp pivotally carried by the inner end of said arm adjustably engageable with said torch to thereby dispose the outer end of said arm spaced from the burner nozzle of the torch, an L-shaped extension projecting from the outer end of said arm, a forked holder carried by said arm and extending through one leg of said L-shaped extension, a flint projecting between the arms of said fork, an abrading wheel pivotally carried by said fork and having parts of its periphery extending inwardly through said slot, engaging said flint below said arm adjacent said nozzle, and a spring biasing said flint into engagement with said abrading wheel.

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