Jan. 20, 1942. J. B. DILTS 2,270,625

SCRAPER ATTACHMENT FOR BLOWTORCHES

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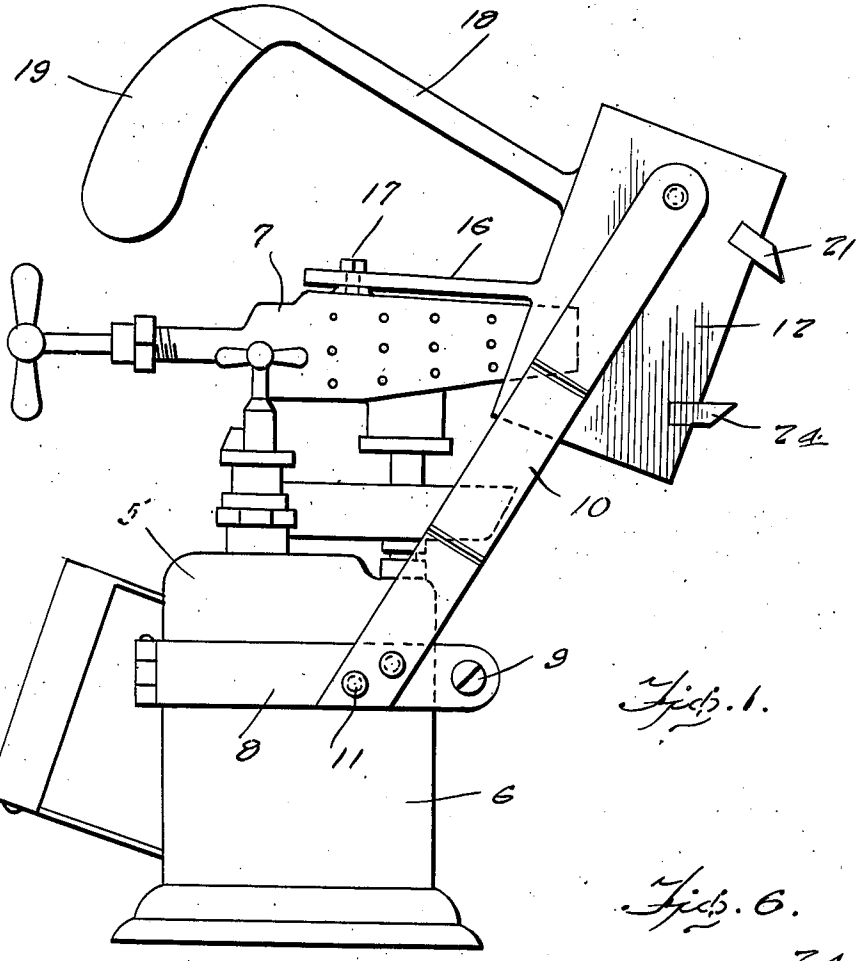


Fig. 1.

Fig. 6.

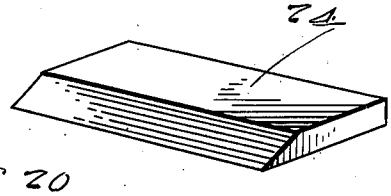
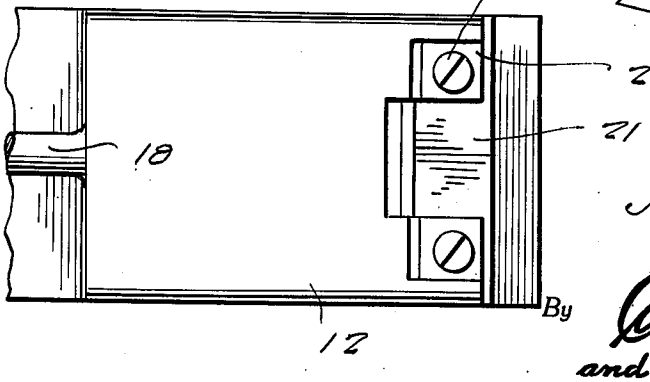


Fig. 4.



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Fig. 2.

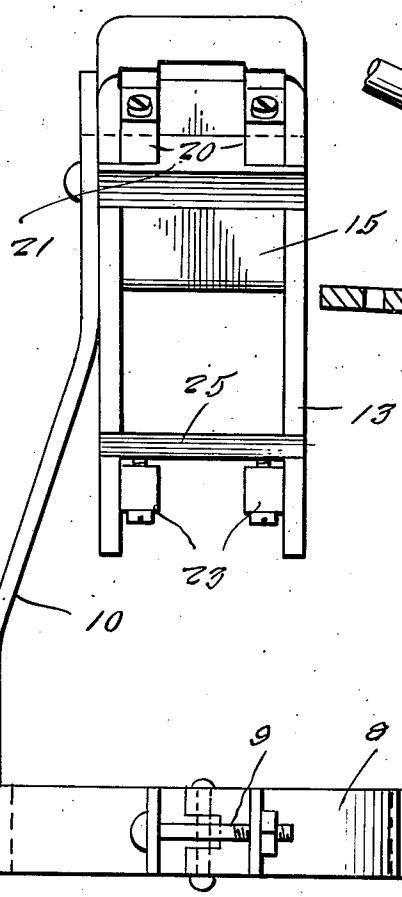


Fig. 3.

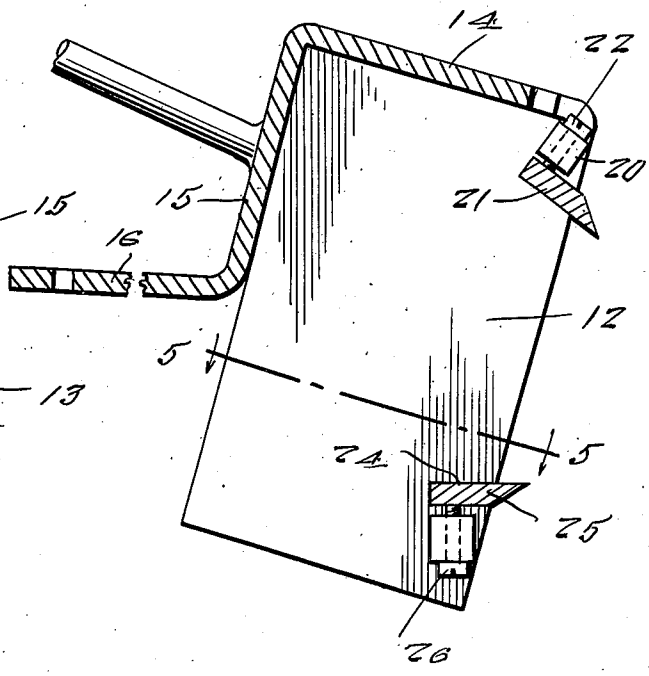
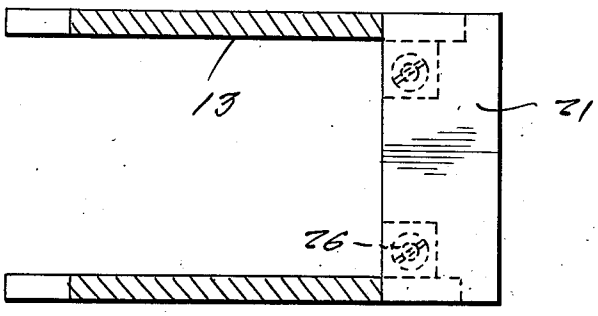


Fig. 5.



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Patented Jan. 20, 1942 2,270,625

UNITED STATES PATENT OFFICE

2,270,625

SCRAPER ATTACHMENT FOR BLOW-TORCHES

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Application February 19, 1940, Serial No. 319,812

3 Claims. (Cl. 158—13.6)

The present invention relates to blow-torches and has for its primary object to provide a scraper attachment designed for attaching a pair of scraper blades adjacent the nozzle of the torch whereby to facilitate the removal of the paint which has been loosened or melted by the torch.

A further object is to provide a shield for the flame of the torch for directing the same toward the blade whereby to center the flame at the part of the work to be acted upon by the scrapers and also to prevent injury to surrounding portions of the work.

A further object is to provide an attachment of this character of simple and practical construction, which is efficient and reliable in performance, relatively inexpensive to manufacture and install in operative position on a conventional type of torch, and which is otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout and in which:

Figure 1 is a side elevational view.

Figure 2 is a front elevational view with the scraper attachment removed from the blow-torch.

Figure 3 is a vertical sectional view through the shield and blades carried thereby.

Figure 4 is a top plan view of the shield and scrapers.

Figure 5 is a sectional view through the shield taken substantially on a line 5—5 of Figure 3, and

Figure 6 is a perspective view of one of the blades.

Referring now to the drawings in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates a blow-torch of conventional construction which includes the tank 6 and the nozzle 7. A clamping ring 8 is secured to the tank, the ring being formed of a pair of hinged sections having their free ends secured in a clamping engagement by the bolt 9. Rising from the ring member is a brace 10 riveted at one end as shown at 11 to the ring member and extending upwardly and forwardly of the torch, the upper end of the brace being riveted or otherwise fixedly secured to one of the side walls of a shield designated generally at 12.

The shield is constructed of a pair of spaced parallel upstanding walls 13 connected at their upper edges by a top wall 14 and connected at the upper portion of their rear edges by a rear wall 15, the lower edge of the rear wall extending angularly rearwardly to provide an attaching bracket 16 which is secured to the top of the nozzle by a bolt 17. The front end of the nozzle projects forwardly between the walls 13 as clearly shown in Figure 1 of the drawings.

To the rear wall 15 is also secured a handle 18 which overlies the nozzle and extends rearwardly thereof and terminates above the nozzle in a hand-grip 19. The hand-grip portion 19 of the handle is preferably constructed of Bakelite or other insulation material.

From the foregoing it will be apparent that the front, bottom and the lower portion of the rear of the shield is open to permit the suitable draft of air between the walls and so that no obstruction will be made to the forward projection of the flames from the nozzle 7.

Projecting inwardly from the opposed faces of the walls 13, adjacent their front upper edges, is a pair of lugs 20—20, and notches 21 are formed in the front edges of the walls for receiving the opposite end portions of a scraper blade 21, which is secured in the notches by means of bolts 22.

Likewise projecting inwardly from the opposed faces of the walls, adjacent their front lower edges is a pair of lugs 23—23 and notches 24 are likewise formed in the front edges of the walls adjacent said lugs for receiving the scraper blade 25 which is secured in position by the bolts 26, both the upper and lower blades having their cutting edges projecting forwardly beyond the front edges of the side walls 13, as clearly shown in Figure 3 of the drawings.

From the foregoing it will be apparent that as the paint is softened or loosened by the flame projected from the nozzle 7, the blades will be utilized to scrape or remove the paint from the surface of the work. Likewise, the side walls 13 constitute a shield to protect adjacent portions of the work from injury.

It is believed the details of construction, operation and advantages of the invention will be readily understood from the foregoing without further detailed explanation.

Having described the invention, what I claim is:

1. A scraper attachment for a blow-torch comprising a box-like shield open at its front, bottom and lower portion of its back, a clamp

extending upwardly from the clamp for supporting the shield on the nozzle of the blow torch, a brace projecting rearwardly from the attached to the tank of the blow-torch, an arm shield and attached to the nozzle of the blow-torch, a handle projecting rearwardly from the shield adjacent its upper portion and scraper blades mounted at the open front of the shield respectively above and below the nozzle.

2. A scraper attachment for a blow-torch comprising a box-like shield open at its front, bottom and lower portion of its back, a clamp attached to the tank of the blow-torch, an arm extending upwardly from the clamp for supporting the shield on the nozzle of the blow-torch, a brace projecting rearwardly from the shield and attached to the nozzle of the blow-torch, a handle projecting rearwardly from the shield adjacent its upper portion and scraper blades mounted at the open front of the shield respectively above and below the nozzle, said blades being inclined with their outer edges disposed in converging relation to center the heat on the work.

3. A scraper attachment for a blow-torch comprising a box-like shield open at its front, bottom and lower portion of its back, a clamp attached to the tank of the blow-torch, an arm extending upwardly from the clamp for supporting the shield on the nozzle of the blow-torch, a brace projecting rearwardly from the shield and attached to the nozzle of the blow-torch, a handle projecting rearwardly from the shield adjacent its upper portion, notches in the front edges of the shield, a pair of scraper blades having their rear edges positioned in the notches and with the front edges of the blades projecting forwardly from the shield and set screws bearing on the blades to secure the same to the shield.

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