April 4, 1939. W. S. WYMAN 2,153,289

BRANDING IRON

Filed Nov. 29, 1937

Fig. 1.

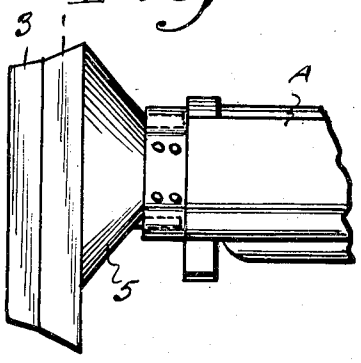


Fig. 2.

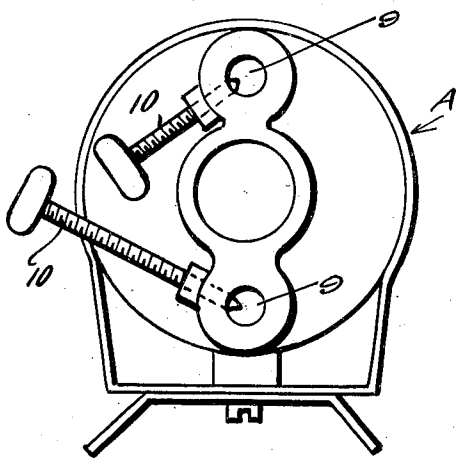


Fig. 3.

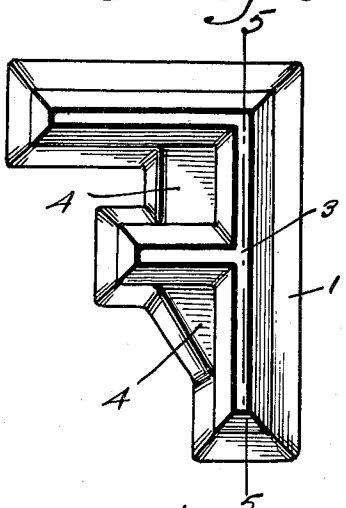


Fig. 4.

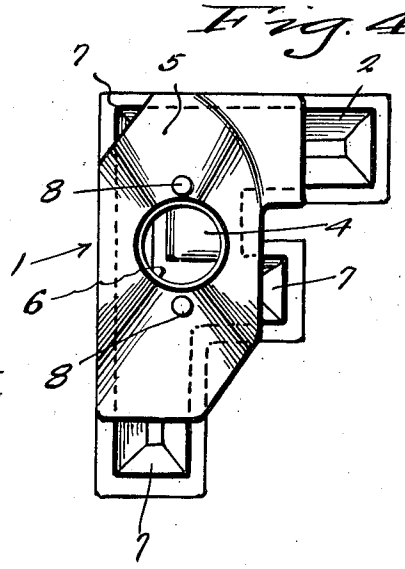
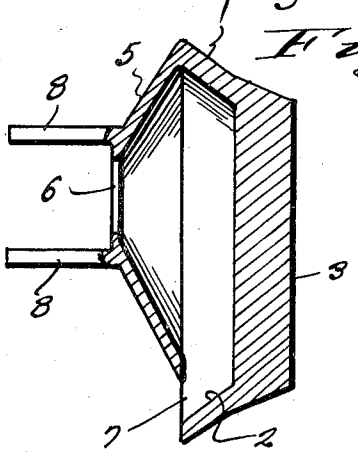


Fig. 5.



Inventor

W. S. Wyman

By Clarence O'Brien

Hyman Berman

Attorneys

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BRANDING IRON

Walter S. Wyman, Meeker, Colo.

Application November 29, 1937, Serial No. 177,119

1 Claim. (Cl. 158—14)

This invention relates to a branding iron for use with a blow torch, the general object of the invention being to make the iron in the shape of a letter or other branding character and of hollow construction, with a rearwardly extending cover portion which leaves openings at the rear of the character for the escape of the products of combustion and which has an opening therein for the entrance of the flames from the torch.

Another object of the invention is to provide the cover portion with pins which are adapted to fit in holes in the front end of the torch and to be held in said holes by screws so that the character is detachably connected with the front end of the torch.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claim.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is an elevation of the front end of a torch with the iron connected therewith.

Figure 2 is a view of the front end of the torch.

Figure 3 is a front view of a branding character, shown as made in the form of the letter F.

Figure 4 is a rear view of Figure 3.

Figure 5 is a section on the line 5—5 of Figure 3.

It will, of course, be understood that the irons may be made to represent any figure, numeral or combination of figures and numerals or of any design, the iron shown representing the letter F.

Irrespective of the shape of the iron I form it with a body part 1 of hollow construction and having internal rearwardly flaring walls 2 with the outline of the character or design formed by a solid front part 3 which tapers forwardly and terminates in a narrow front wall or edge which forms the branding portion of the iron. The hollow body part is formed with the connecting web portions 4, also of hollow construction, these portions being used where the design is formed with spaced parts which should be connected together for heat transmitting purposes as well as for strengthening purposes. The body part is also formed with outwardly flaring external walls, as shown. The body part is partially covered by a rearwardly extending cover portion 5 having a hole 6 therein and said cover portion slopes inwardly from its outer front edge to said hole so that this cover portion acts to enlarge the combustion chamber formed by the hollow body part. This cover portion terminates short of the end portions of the iron to leave the openings 7 in said portion, such as in the upper corner of the vertical part of the F and at the lower end of said vertical portion and also at the outer ends of the horizontal portions. These openings permit the escape of the products of combustion.

A pair of pins 8 extend rearwardly from the cover portion adjacent the hole 6 and are preferably arranged one below and one above the hole and these pins engage holes 9 formed in a front part of the torch A and are held in said holes by the screws 10. The torch may be of any suitable construction though, of course, it must be provided with the holes for receiving the pins 8 and the clamping screws for holding the pins in the holes at the front or outward end of the torch.

As will be seen that portion of the cover part 5 carrying the hole 6 fits snugly around the outlet end of the torch so that the flames from the torch will enter the combustion chamber of the iron formed by the hollow body part 1 and the cover part 5 and the products of combustion will escape through the openings 7.

As before stated the hollow body part 1 and the cover part 5 forms a large chamber for receiving the flames and the products of combustion and by having the openings 7 at the ends of the different parts of the iron the flames must travel over all parts of the iron to escape from the holes 7 and thus the iron is thoroughly and quickly heated and the large combustion chamber prevents the flames from being extinguished by the wind and the numerous openings 7 will give the gases enough room to escape without smothering the flames. By the use of the pins fitting in the holes in the front end of the torch and the screws for clamping the pins in said holes, there is no danger of the expanding and contracting action of the iron loosening the iron from the torch which might result in the iron dropping from the torch or the iron being knocked from the torch during the branding operation.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts provided that such changes fall within the scope of the appended claim.

Having described the invention, what is claimed as new is:

A branding iron of the class described comprising a hollow base part made in the form of the character or design to be branded, a solid branding part formed integrally on the front of the base part and having a narrow front edge, the walls of the hollow base part sloping outwardly and rearwardly from the front wall to which the branding part is connected, a rearwardly extending cover part having its edges connected to the rear edges of such walls, said cover part terminating short of the ends of the hollow base part to leave portions of the hollow portion of the base part exposed to provide outlet openings, said cover part having an approximately centrally arranged opening therein with the cover part sloping outwardly from its edges to said opening therein, said last-mentioned opening being adapted to receive the outlet end of a torch, said cover part and the hollow portion of the base part forming a combustion chamber and the exposed ends of the hollow portion forming outlets for the products of combustion, and means for attaching the iron to the outlet end of said torch.

WALTER S. WYMAN.