

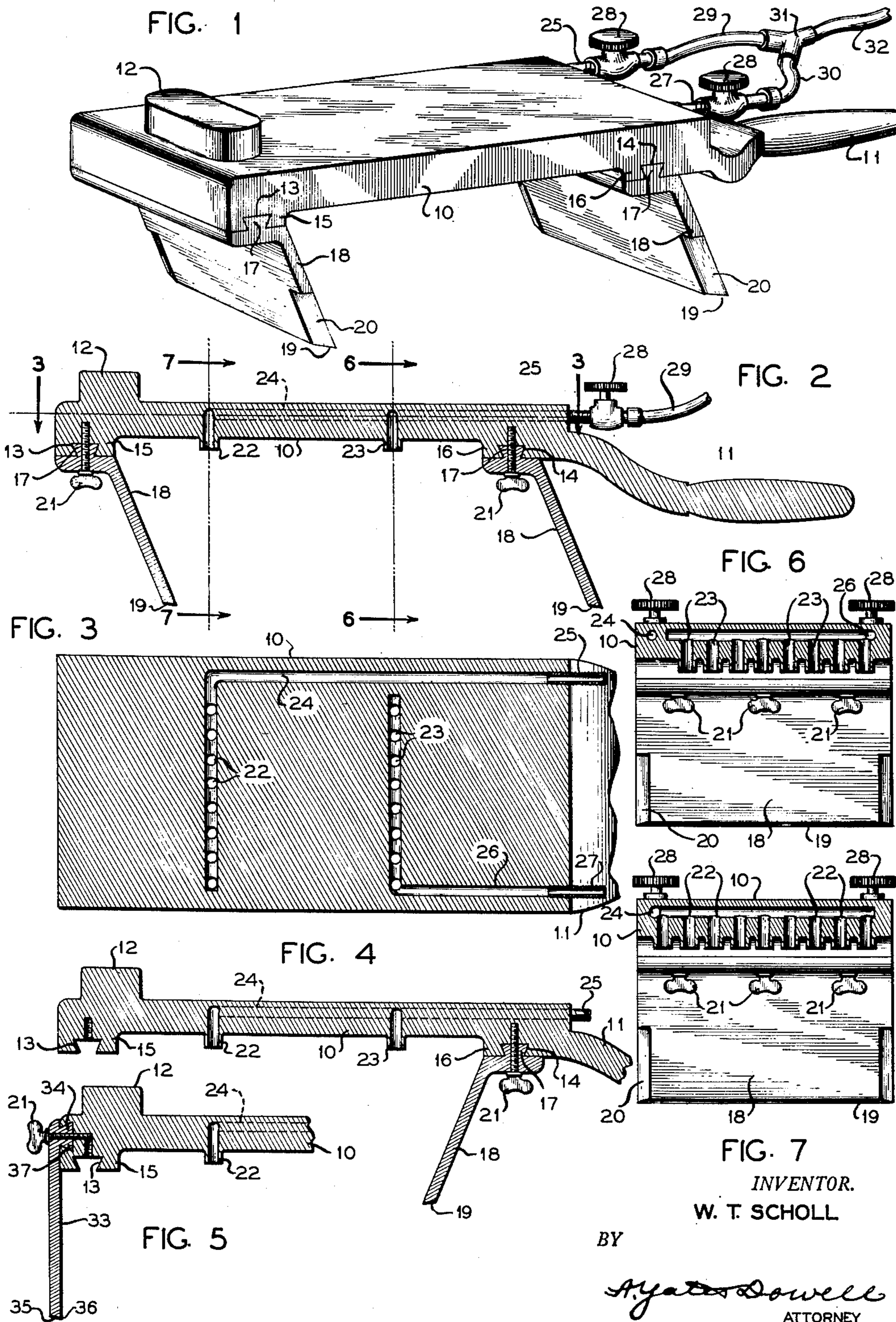
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W. T. SCHOLL

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PAINT BURNING AND SCRAPING DEVICE

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INVENTOR.
W. T. SCHOLL

BY
A. J. Dowell
ATTORNEY

UNITED STATES PATENT OFFICE

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PAINT BURNING AND SCRAPING DEVICE

William T. Scholl, Evansville, Ind.

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This invention relates to decoration, painting, paperhanging and the like and more particularly to the tools or equipment employed in such work.

Specifically, the invention relates to tools employed in the preparation of wall surfaces for paint in order to remove old paint and clean the surface for the reception of a new surface protecting paint coating.

In the painting of the exterior of a building it is desirable and customary to clean the surface, removing old paint and other undesirable substance on the surface to be painted by applying a flame to the surface for softening the same and then cleaning such surface by scraping. This has been done chiefly by the use of a blow torch or flame applicator in one hand and a bladed instrument such as a putty knife or other type of paint scraper in the other hand and has required a substantial amount of time, effort, and care to accomplish, and has emphasized the desirability of reducing the time and labor necessary for this operation.

Accordingly, it is an object of the invention to provide paint burning and scraping equipment which can be used by one hand for both applying a flame and for scraping the surface to which the flame has been applied to clean the same, as well as a device of relatively simple and inexpensive construction with the hand of the operator protected from the heat of the flame.

Another object of the invention is to provide a combination paint burning and scraping device which can be held and operated with one hand, and having a control for the size of the flame, with a detachable blade and a portion which can be gripped by the other hand if desired for applying force during the scraping operation and which gripping portion can also be used to flatten or drive surface nails or other projections into such surface.

A further object of the invention is to provide a combination burning and scraping tool having a scraper and a heat shield for protecting the hand of the operator from the heat and which scraper and heat shield are detachable and of identical construction in order to permit a single type of element to be produced and interchangeably used at opposite ends of the device, or in other words, a combination burner and scraper having an elongated body with an elongated handle at one end and the burner intermediate the ends and with a movable scraper usable at both ends but intended to be used adjacent the handle as a baffle when another scraper

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is employed at the opposite end but capable of being used as both a rear scraper and baffle when the scraper at the opposite end is omitted.

Other objects and advantages of the invention will be apparent from the following description taken in conjunction with the accompanying drawings wherein:

Fig. 1 is a perspective illustrating one application of the invention;

Fig. 2, a longitudinal section;

Fig. 3, a section on the line 3—3 of Fig. 2;

Fig. 4, a fragmentary longitudinal section with the rear blade disposed in a different position;

Fig. 5, a fragmentary detail of a slightly modified form;

Fig. 6, a section on the line 6—6 of Fig. 2; and,

Fig. 7, a section on the line 7—7 of Fig. 2.

Briefly stated, the paint burner and scraper of the present invention comprises a body having a pair of longitudinally spaced gas burners and with a pair of blades attached one at each end of the body with which the paint can be immediately scraped from a surface after it has been softened by heat. The blades are reversibly mounted so that a single blade may be used in two different positions at each end of the device. The body is provided with a downwardly and rearwardly extending handle on the opposite side of the rear blade from the burners and a valved line is employed for supplying fuel to the burners.

With continued reference to the drawing, the combination paint burner and scraper is formed with an elongated rectangular body 10 having an integral handle 11 at its rearward end and a combination gripping and hammering portion 12 on its top forward surface.

The body 10 is provided with dovetail grooves 13 and 14 formed in the lower surface of the depending ridges or thickened portions 15 and 16 for the reception of the dovetail tongues 17 extending laterally on one side of the blades 18. The blades at the front and rear may be identical with one end portion bent at an obtuse angle so that the blades may slope rearwardly with an acute angle between the blade and the body of the device at the rear of the blade, or slope forwardly so that this angle is an obtuse angle as shown in Fig. 4. The blade may be provided with a bevelled lower edge 19 and bevelled side edges 20 thus providing sharp scraping edges to facilitate the removal of paint from the various surfaces encountered. The side scraping edges 20 are particularly useful for removing paint from

the edge surfaces of ship lap and trim while scraping the flat surfaces with the lower scraping edges 19. If desired, a set screw or wing bolt 21 may be provided for securing the blade in fixed position relative to the body of the holder.

The body of the holder is provided with a series of burner jets or nozzles 22 and a second series of burner jets or nozzles 23, the first series being adapted to be supplied with combustible fuel through a bore 24 which extends at right angles across the body 10 connecting the burner nozzles and then at an angle of 90° along the edge of the body. Into this latter bore is threaded a nipple 25. The jets or nozzles 23 are connected by a bore 26 which extends at right angles across the body and parallel to the edge of the body and receives a threaded nipple 27.

Onto the threaded nipples 25 and 27 are mounted valves 28 connected through flexible hose 29 and 30 and a Y coupling 31 to a fuel line 32. Thus fuel may be supplied to either one or both of the burner nozzles 22 and 23 under the control of the respective valve 28 and the flame from the nozzle employed to soften the surface coating of paint.

The surface coating may be scraped off by the scraping edges 19 of one of the blades 18 if desired, disposed at the angle shown in Figs. 1 and 2 whereby a reverse pull of the device will perform the scraping operation or, if desired, one or both of these blades can be reversed so that a push of the device is necessary, it being understood that in the use of the device it is only necessary to grip the handle with one hand although if desired a second hand may be employed upon the gripping element 12.

In Fig. 4 the valves 28 are eliminated, the tube being intended to thread directly into the rear of the body of the scraper and the flow of gas through the nozzles may be uncontrolled or may be controlled in any other desired manner, the blade 18 being set in a position to form a guard to prevent the heat from the flame from scorching the hand of the user of the device.

In Fig. 5 a slightly modified form of the forward end of the blade holder is disclosed wherein an additional blade 33 of slightly modified construction may be employed. This blade has a straight body portion with a dovetail tongue 34 at one end disposed at right angles to the blade body and may have a bevelled extremity at 35 forming a scraping edge 36. If desired, a wing bolt 21 may be employed for fastening the blade in position. The forward end of the body is provided with a thickened portion 15 having dovetail grooves 13 and 37 either of which may receive the dovetail tongue 34 of the blade 33 or the tongue 17 of the blade 18. Otherwise the device is similar to that previously disclosed.

It will be understood that there is provided a relatively simple and inexpensive paint burner and scraper which consists of relatively few parts including a combination burner body and holder which, with the device shown in Figs. 1 and 2, one or two blades may be employed, or with the device shown in Fig. 5, three blades may be employed. Also, with the device of Figs. 1 and 2, the two blades are identical while with the device of Fig. 5 an additional blade is utilized. Further, the device is of such a character that it can be held and used by one hand, which hand is protected from the heat and the burning operation employed using either one or both burners.

It will be obvious to those skilled in the art that various changes can be made in the inven-

tion without departing from the spirit and scope thereof and therefore this invention is not limited by that which is shown in the drawing or described in the specification but only as indicated in the appended claims.

What is claimed is:

1. A burning and scraping tool comprising a substantially rectangular body having a depending ridge extending transversely adjacent its forward and rearward edges, a dovetail groove extending transversely in the lower surface of each of said depending ridges, another dovetail groove formed in the forward edge of said body, a plurality of scraper blades each having a dovetail tongue formed on one side and adjacent one end portion thereof, certain of said scraper blades having said one end portion extending therefrom at an obtuse angle, securing means extending through said dovetail tongues and into said body at the base of said dovetail grooves, a plurality of transverse rows of integrally formed burner nozzles depending from said body, a plurality of passages in said body each having a transverse branch communicating with one row of the burner nozzles and a second branch extending to the rearward edge of said body, a conduit extending rearwardly from each of said second branches and having valve means therein to selectively control the supply of fuel to each of said rows of burner nozzles, and a handle extending downwardly and rearwardly from the rearward edge of said body.

2. A burning and scraping tool comprising a substantially rectangular body having a thickened portion extending transversely adjacent its forward and rearward edges, a dovetail groove extending transversely in the lower surface of each of said thickened portions, a plurality of scraper blades each having a dovetail tongue formed on one side and adjacent one end portion thereof, said scraper blades having said one end portion extending therefrom at an obtuse angle, a plurality of transverse rows of burner nozzles depending from said body, a plurality of passages in said body each having a transverse branch communicating with one row of the burner nozzles and a second branch extending to the rearward edge of said body, a conduit extending rearwardly from each of said second branches to supply fuel to each of said rows of burner nozzles, and a handle extending downwardly and rearwardly from the rearward edge of said body.

3. A combination burner and scraper comprising a holder in the form of a rectangular body having a pair of dovetail grooves disposed transversely one across each end portion of the holder, scraper blades having dovetail tongues for reception in said dovetail grooves and also having angular scraping portions, said dovetail tongues extending laterally from the body of the blade whereby the blades may be reversed, said holder having a handle adjacent one end and a combination gripping and hammering portion adjacent its opposite end, a series of burner nozzles extending across the forward portion of the underside of the holder, a second series of similar burner nozzles extending across the underside of the holder rearwardly of the first series, a fuel supply line, a conduit leading from said supply line to each of said series of burner nozzles, and independent means for controlling the flow of fuel to each series of burner nozzles.

4. A burning and scraping tool comprising a body having a plurality of depending scraper

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blades and a plurality of depending projections providing burner nozzles intermediate certain of said scraper blades, said body having transverse dovetail grooves adjacent its forward and rearward edges, said scraper blades having one end portion which is disposed at an obtuse angle thereto and provided with a tongue adapted to engage in said grooves, securing means for retaining said tongues in said grooves, a handle extending downwardly and rearwardly from said body, said body having a passage therein and a conduit extending rearwardly therefrom above said handle for supplying fuel to said burner nozzles.

5. A burning and scraping tool comprising a body having a plurality of depending scraper blades and a plurality of integrally formed depending projections providing burner nozzles intermediate certain of said scraper blades, means for detachably mounting said scraper blades adjacent the forward and rearward edges of said body, a handle extending downwardly and rearwardly from said body, and means including a passage through said body and a conduit extending rearwardly therefrom above said handle for supplying fuel to said burner nozzles.

6. A burning and scraping tool comprising a body having a plurality of depending scraper blades and a plurality of depending projections providing burner nozzles intermediate certain of said scraper blades, a handle extending downwardly and rearwardly from said body, and means including a passage through said body and a conduit extending rearwardly therefrom above said handle for supplying fuel to said burner nozzles.

7. A burning and scraping tool comprising a relatively thin flat body having a scraper blade disposed transversely of said body, a handle extending from said body spaced relatively to said blade, burner jets located on the same side of said body as said blade and between said blade and said handle, and means for providing a shield between said jets and said handle for shielding the handle from the heat of the jets.

8. A combination burner and scraper compris-

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ing a holder in the form of a body having a pair of grooves disposed transversely one across each end portion of the holder, scraping blades having tongues received in said grooves, said holder having a handle at one end, a series of burner nozzles extending across the forward portion of the underside of the holder and between the pair of grooves, a fuel supply line, and a conduit leading from said supply line to said series of burner nozzles.

9. A burning and scraping tool comprising a relatively thin flat body, a scraper blade mounted transversely of said body, a handle extending from said body and spaced relatively to said blade, means on said body for providing a flame on the same side of said body as said blade and between said blade and said handle, and means on said body for shielding said handle from said flame.

10. A burning and scraping tool comprising a relatively thin flat body, a scraper blade adjustably mounted transversely of said body, a handle extending from said body and spaced relatively to said blade, means on said body for providing a flame on the same side of said body as said blade and between said blade and said handle, and means on said body for providing a combination shield and scraper between said flame providing means and said handle for use as a scraper and for shielding the handle from the heat of the flame.

WILLIAM T. SCHOLL.

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