Dec. 25, 1951 W. W. TAYLOR 2,579,625

FLUID DISCHARGE GUN

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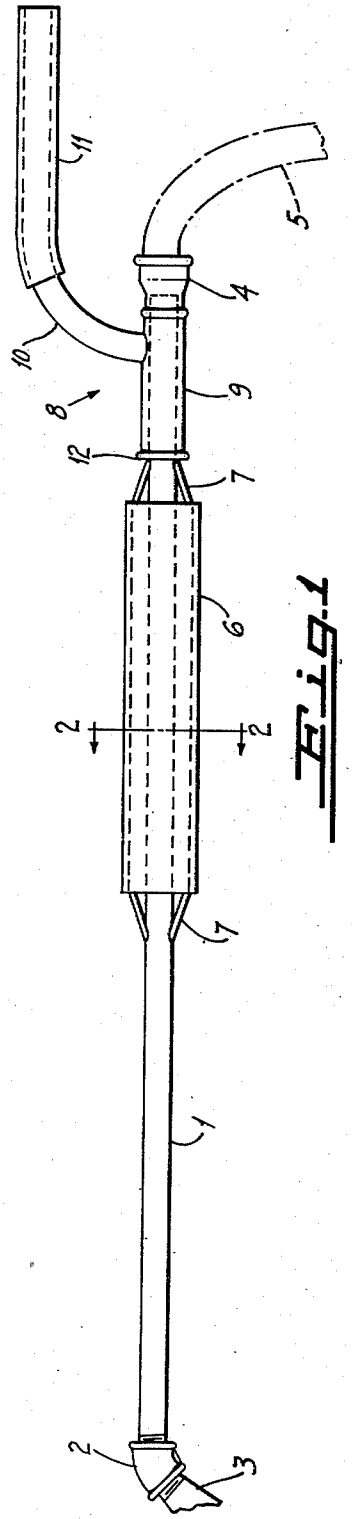


Fig. 1

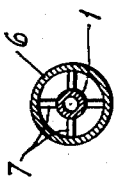


Fig. 2

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FLUID DISCHARGE GUN

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2 Claims. (Cl. 299—112)

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The present invention relates to improvements in a fluid discharge gun, principally intended to be used in connection with cleaning machines for the discharge of steam or water, usually under high pressure, against an object to be cleaned such as a motor vehicle body or sub-structure, industrial machinery and the like.

The principal object of the present invention is to provide a gun of the character described that is light in weight, simple in construction, easy to handle, particularly in close quarters, and that may be manufactured economically.

It is further proposed in the present invention to provide a gun of the character described that has two hand holds, one for the left hand and one for the right hand, one of the hand holds being fixed with respect to the gun and the second hand hold being revolvable on the gun.

My invention is particularly directed to the arrangement of the second hand hold. A gun of the character described is usually provided with a discharge nozzle at the front end and a hose coupling at the rear end, and it is a particular feature of my invention to arrange the second hand hold in such a manner that it revolves on the gun just forward of the hose coupling but has a gripping section disposed rearwardly of the hose coupling so that the hose is connected to the gun between the two hand holds which aids considerably in the maneuverability of the gun.

It is further proposed in the present invention to arrange the hand holds in such a manner with respect to the gun that the entire rear portion of the gun is substantially insulated by the hand holds and no serious injury will result from accidental contact with any part of the gun in the rear half thereof.

Further objects and advantages of my invention will appear as the specification proceeds, and the novel features of my invention will be fully defined in the claims attached hereto.

The preferred form of my invention is illustrated in the accompanying drawing, in which

Figure 1 shows a side view of my fluid discharge gun, and

Figure 2, a section taken along line 2—2 of Figure 1.

While I have shown only the preferred form of my invention, I wish to have it understood that various changes and modifications may be made within the scope of the claims attached hereto without departing from the spirit of the invention.

Referring to the drawing in detail, my discharge gun comprises in its principal features a

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length of pipe 1 having a front coupling 2 for a nozzle 3 and a rear coupling 4 for a hose 5, which latter may be considered, for the purpose of the present invention, the discharge hose of a cleaning machine such as shown and described in the Malsbary et al. Patent 2,345,614 of April 4, 1944.

A hand hold 6 in the form of a sleeve having an inner diameter considerably larger than the outer diameter of the pipe is mounted upon the latter intermediate the ends thereof and is fixed with respect to the pipe by means of suitable braces 7 welded to the sleeve and the pipe respectively. The hand hold is preferably mounted in such a manner as to be somewhat closer to the rear coupling 4 than to the front coupling 2, as shown in the drawing.

A second hand hold 8 is mounted on the pipe 1 rearwardly of the first hand hold and comprises a sleeve 9 revolvable on the pipe 1 and an arm 10 projecting sidewise from the sleeve and terminating in a gripping member 11 disposed rearwardly of the coupling 4. The gripping member 11 is here shown as running parallel to the axis of the pipe, and in spaced relation to the latter. The sleeve 9 is preferably of a length so as to fill the space between the hand hold 6 and the coupling 4 and a washer 12 may be introduced between the braces 7 and the sleeve 9 to insure freedom of revolving motion for the latter. In this manner the two sleeves combine to substantially insulate the entire rear one-half of the pipe and to protect the hand of the operator from accidental contact with the pipe.

The inner diameter of the sleeve may be made slightly larger than the outer diameter of the pipe 1 to insure freedom of rotary motion even if the pipe should expand under the influence of heat.

In the use of the device the operator grasps the hand hold 6 with one hand and the hand hold 11 with the other hand. The hand hold 6 is used for steering and turning the nozzle while both hand holds are used for supporting the gun. It is of particular importance that the gripping section of the swivel handle is disposed behind the nozzle 4 which carries the weight of the hose 5 so that the weight of the latter may be said to be well distributed between the two hands of the operator. It will be particularly noted that my gun is very simple in construction, easy to handle, light of weight and economic in the manufacture thereof.

I claim:

1. In a fluid discharge gun, a straight length of pipe having a nozzle coupling at its front end and

a hose coupling at its rear end, a hand hold mounted upon the pipe intermediate the length thereof and having a forward end located substantially midway of the pipe and a rear end spaced from the rear end of the pipe so as to leave a rear section of the pipe unobstructed, the hand hold comprising a sleeve surrounding the pipe and having an inner diameter greatly in excess of the outer pipe diameter so as to provide insulating space between the sleeve and the pipe and having spaced braces for anchoring the ends of the sleeve to the pipe with freedom of access of outside air to the space between the sleeve and the pipe, and a second hand hold comprising a sleeve revolvable upon the rear pipe section forwardly of the hose coupling and a handle projecting from said sleeve sidewise and having a substantially straight gripping section disposed rearwardly of the coupling and extending parallel to the pipe, with the front end of the gripping section located substantially in the transverse plane of the hose coupling.

2. In a fluid discharge gun, a straight length of pipe having a nozzle coupling at its front end and a hose coupling at its rear end, a hand hold mounted upon the pipe intermediate the length thereof and having a forward end located substantially midway of the pipe and a rear end spaced from the rear end of the pipe so as to leave a rear section of the pipe unobstructed, the hand hold comprising a sleeve surrounding the pipe and having an inner diameter greatly in excess of the outer pipe diameter so as to provide insulating space between the sleeve and the pipe and

having spaced braces for anchoring the ends of the sleeve to the pipe with freedom of access of outside air to the space between the sleeve and the pipe, and a second hand hold comprising a sleeve revolvable upon the rear pipe section forwardly of the hose coupling and a handle projecting from said sleeve sidewise and having a substantially straight gripping section disposed rearwardly of the coupling and extending parallel to the pipe, with the front end of the gripping section located substantially in the transverse plane of the hose coupling, the second sleeve being substantially coextensive with the said rear section of the pipe to continue the insulation to the rear end of the pipe.

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