CLEANING ATTACHMENT FOR SPRAY PAINTING DEVICE

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Fig. 1

Fig. 2

Fig. 3

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ABSTRACT OF THE DISCLOSURE

A reversible paint nozzle and adapter made up of a hollow threaded nozzle sleeve that has a hole in one end to be threadably received on a male threaded paint gun. A nozzle being cylindrical and having a cylindrical flange at one end. An inner cylindrical member is supported against the end of the threaded male member and the flange of the nozzle adapter against the inner member with the cylindrical part of the nozzle extending through the hole in the nozzle sleeve. An adapter is provided being internally threaded and adapted to receive the nozzle when reversed so that the flanged end is adjacent the reduced size hole in the adapter. Thus the nozzle adapter can be made shorter and the male threaded member does not have to have the extreme length that would be necessary if the nozzle adapter were made to receive the nozzle in both positions.

This invention relates to painting equipment and, more particularly, to an improved adapter means in conjunction with a paint gun for cleaning spray paint nozzles.

It is, accordingly, an object of the invention to provide an improved adapter for cleaning paint nozzles.

Another object of the invention is to provide an adapter for cleaning paint nozzles which is simple in construction, economical to manufacture and simple and efficient to use.

Another object of the invention is to provide an improved cleaning device for spray paint nozzles.

With the above and other objects in view, the present invention consists of the combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawing and more particularly pointed out in the appended claim, it being understood that changes may be made in the form, size, proportions, and minor details of construction without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:
FIG. 1 is a view of a spray paint gun with the improved adapter supported thereon.
FIG. 2 is a longitudinal cross sectional view of a spray paint nozzle and sleeve supported on a part of a paint gun shown in FIG. 1 in conventional arrangement.
FIG. 3 is a longitudinal cross sectional view similar to FIG. 2 showing the adapter supporting the nozzle in reverse position for cleaning.

Now with more particular reference to the drawing, the paint gun is generally indicated at 10. The part of the paint gun shown will be attached to the paint gun in the usual manner. The paint gun terminates at its forward end in a male threaded member 11 and a female threaded portion 12 generally holds the part shown onto the gun. The outside part 13 may be non-circular to receive a suitable wrench for rotating the member shown to tighten it onto the other parts of the gun.

An interally threaded nozzle sleeve 14 is normally supported on male threads 11 and this holds the nozzle 15 in position for painting. The nozzle 15 has a generally cylindrical part shown that extends through the hole 16 in the nozzle sleeve 14 and an outwardly directed flange 17 rests against the shoulder inside the nozzle sleeve 14. The tip 18 of the nozzle has a laterally extending slot 19 therein that connects to an orifice 20 and this is the orifice through which paint is sprayed and which frequently becomes plugged with paint.

The paint gun generally has an internal member at 20 therein that rests against the outer end of the male threaded member 11 and this member 20 has a portion 21 that extends into the end of the paint gun member 10 and provides a space 22 therearound for paint to pass through.

The adapter 23 has internal threads that are received on the male threaded member 11 when the nozzles 16 are to be cleaned. It will be seen that the inside of the member 23 is large enough to receive the flange 17 against a suitable resilient washer 24 and a hole 25 connects the nozzle orifice 19 with the ambient air.

To clean the nozzle it is merely necessary to remove the sleeve 14, place the nozzle 15 into the adapter 23 in the direction reversed from the direction of normal use shown in FIG. 3 with the flange 17 against the resilient washer 24. The sleeve can then be threaded onto the male threaded member 11 and pressure turned on in the gun to clean the tip. The tip can then be replaced as shown in FIG. 1 and normal painting resumed.

In the embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:
1. In combination, a paint gun, a nozzle, a nozzle sleeve to hold said nozzle in said gun to spray paint and an adapter sleeve to receive said nozzle and to attach to said gun for cleaning said nozzle, a cylindrical internal member having one end resting against said threaded end, said nozzle sleeve being hollow and threadably received on said male threaded member, said nozzle sleeve receiving said internal member, said adapter sleeve being hollow and adapted to be threadably received on said male threaded member with said internal member thereon, said nozzle sleeve having a reduced size hole in the end thereof opposite said threaded end, said nozzle having a generally cylindrical shaped part, and a flange directed radially outward from said cylindrical part generally flush with one end, said flange being adapted to rest against the inside surface of said adapter sleeve around said hole, said nozzle extending through said hole, said adapter sleeve being adapted to be received on said threaded end with said nozzle therein, said nozzle being rotated in said adapter sleeve one hundred and eighty degrees from the position of said nozzle in said sleeve with said flange resting against the said adapter sleeve at said opening.

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