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2,368,536

SPRAY GUN

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Fig. 1.

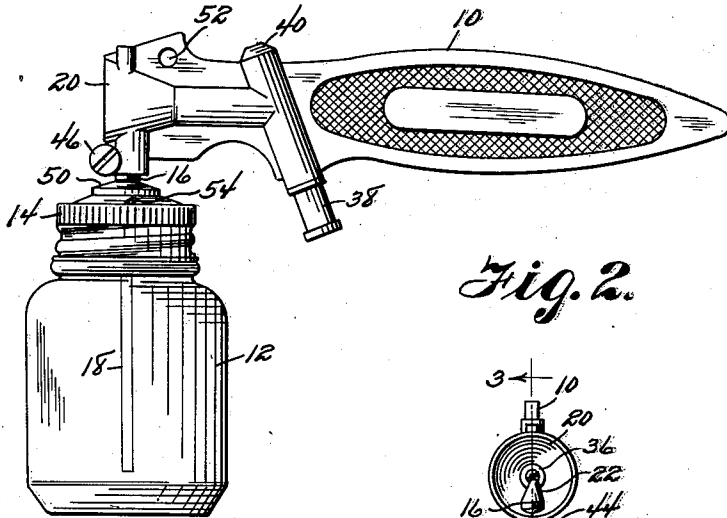


Fig. 2.

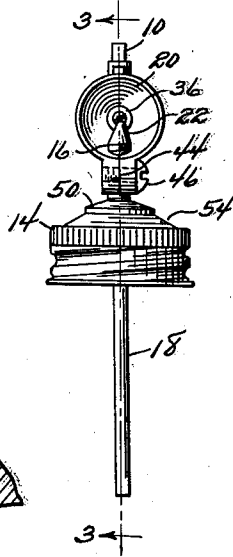
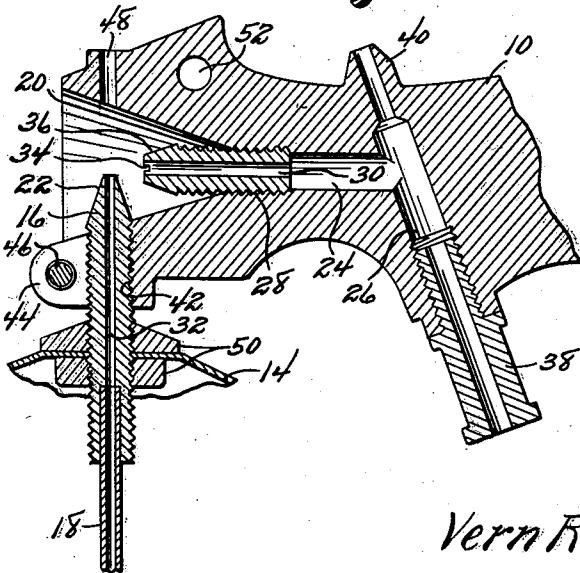


Fig. 3.



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SPRAY GUN

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Application May 18, 1943, Serial No. 487,502

3 Claims. (Cl. 299-88)

This invention relates to a spray gun for spraying paints, varnishes, etc. and has among its objects and advantages the provision of a relatively simple and cheap gun so designed as to be easily handled and maintained in an operating condition.

In the accompanying drawing:

Figure 1 is a side view of the gun.

Figure 2 is an end view of the gun detached from its paint container.

Figure 3 is an enlarged sectional view taken along the line 3-3 of Figure 3.

In the embodiment of the invention selected for illustration, I make use of a handle or frame 10 to which a paint container 12 is connected. This container is provided with a screw cap 14 which is threadedly connected with a tubular stem or jet 16. A tube 18 is attached to the jet 16 and depends into the container 12 to carry material being sprayed to the jet 16, as when a suction is created in the jet and the tube. A flared recess 20 is provided in the end of the frame 10 adjacent the jet 16, the latter having its tip 22 projecting into the recess 20.

The recess 20 is conically shaped and arranged to flare outwardly. A bore 24 in the frame 10 leads into the small end of the recess 20 and communicates with a cross bore 26 in the frame. Disposed in the recess 20 is one end of an air jet 28 threaded into the bore 24. The air passage 30 in the air jet 28 is arranged at right angles to the passage 32 in the jet 16. A screw driver slot 34 is provided in the tip 36 of the air jet 28 so that the tip 36 may be adjusted relatively to the tip 22.

Into one end of the bore 26 is threaded a nipple 38 for connection with a hose leading to a suitable source of supply (not shown). The top end of the bore 26 is reduced in diameter and passes through a raised body 40 on the frame 10, so that this branch of the bore may be covered and uncovered by the thumb to act as a valve for controlling the flow of air through the jet 28. Spraying air flow takes place only when the bore 26 is covered, at which time an air stream flows across the tip 22 to create a suction in the jet 16 to lift paint through the jet to be atomized and carried away with the air stream.

The jet 16 is threaded into a bore 42 in the frame 10, and the frame is divided at 44 which division extends into the bore 42, so that the jet may be clamped securely against accidental displacement by tightening a screw 46 extending through the divided part of the frame. An opening 48 is provided in the frame 10 coaxially of the bore 32 so that the latter may be cleaned easily.

The jet 16 is threaded through the cap 14, and lock nuts 50 are threaded on the jet for frictional engagement with opposite sides of the cap. An opening 52 is made in the frame so that the gun may be hung on a peg when not in use. A small air vent 54 is provided in the cover 14.

Without further elaboration, the foregoing will so fully explain my invention, that others may, by applying current knowledge, readily adapt the same for use under various conditions of service.

I claim:

1. In a spraying device, the combination of a handle provided with an air passage means, a liquid jet threaded into said handle and having a tip arranged in operative relation with said air passage, said handle being partly divided in the plane of said jet, and means for clamping the divided part of the handle upon said jet to fixedly secure the jet.

2. In a spraying device, the combination of a handle provided with an air passage means, a liquid jet extending through said handle and having a tip arranged in operative relation with said air passage, said handle being partly divided in the plane of said jet, and means for clamping the divided part of the handle upon said jet to fixedly secure the latter.

3. In a spraying device, the combination of a handle provided with an air passage means, said handle having a flared end shaped to provide a recess having communication with said air passage, said flared end having an opening, a liquid jet extending through said opening and having a tip arranged in operative relationship with said air passage, said flared end being divided in the plane of said opening, and means clamping the divided part of the flared end upon the jet to fixedly secure the latter.

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