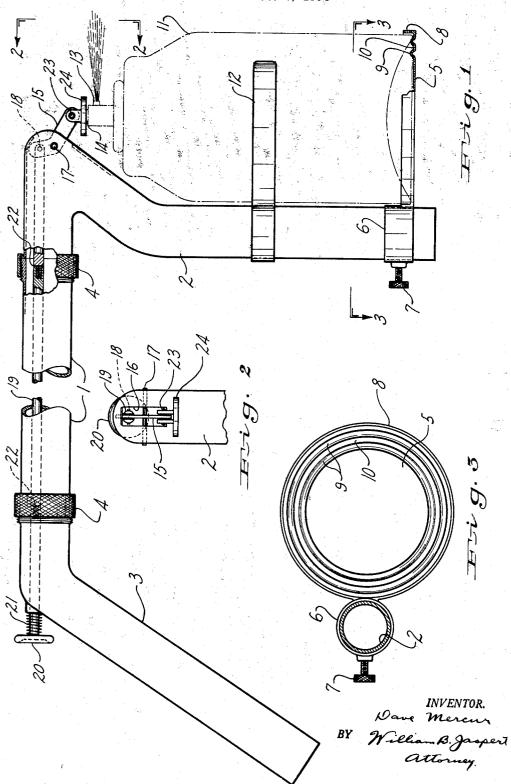
DEVICE FOR MOUNTING SPRAY CONTAINERS

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DEVICE FOR MOUNTING SPRAY CONTAINERS Dave Mercur, Pittsburgh, Pa. Application October 5, 1954, Serial No. 460,309

4 Claims. (Cl. 299-95)

in devices for mounting containers for spraying liquids, particularly insecticides and the like, and for actuating the spray nozzle without the danger of making hand contact with the container or fluid and it is among the objects thereof, to provide a fluid container mounting and dispensing device of simple, lightweight construction by which the fluid container is secured in a manner to be adjustable to any angle of alignment of the nozzle with the object to be sprayed and in which the nozzle is located relative to an actuator that has a self-aligning contact 25 member to assure positive engagement and disengagement with the nozzle release valve. It is a further object of the invention to provide a device of the above-designated character in which the container holding means is provided with an extended handle portion with an actu- 30 ating plunger that may be modified in length, if desired.

These and other objects of the invention will become more apparent from a consideration of the accompanying drawing constituting a part hereof in which like reference

characters designate like parts and in which:

Fig. 1 is a side elevational view partially cut away of a spray container mounting and dispensing device embodying the principles of this invention;

Fig. 2, an end elevational view of a portion of the device taken along the line 2-2, Fig. 1;

Fig. 3, a longitudinal cross-section, partially in elevation of the container mount taken along the line 3-3, Fig. 1.

In the drawing, the numeral 1 generally designates a hollow tube made of aluminum or other lightweight material made up of three sections, 1, 2 and 3, the section 1 coupled to sections 2 and 3 by threaded ends 4 and the ends of the portions 2 and 3 are threaded to interact with the threaded ends 4 so that they may be disconnected and the section 1 removed to connect sections 2 and 3, thus shortening the device, if desired. The section 2 may be termed a gooseneck section on which is mounted a base 5 having a collar portion 6 for sliding on the tubular body 2 and which may be fixed in any vertical position by means of the set screw 7. It will be noted that the base 5 is provided with a flange 8 and with corrugations 9 forming grooves 10 for receiving the peripheral edge of different size containers 11, a large size being shown mounted in the base 5. The grooves 10 center the containers with reference to a clamping spring 12 that is 60 secured to the gooseneck 2 and yieldingly grips the con-

The container 11 is of the nature of an aerosol bomb and is charged with a fluid under pressure, such as an insecticide, fungicide, germicide or other liquids most or some of which may be harmful to the user should they come in contact with the skin. Such containers supplied with a dispenser nozzle 13 having a plunger valve 14 which, when depressed, releases the spray, as indicated in Fig. 1 of the drawing.

It is a primary object of this invention to provide means for actuating the plunger 14 by remote control which con-

sists of a bell crank lever 15 extending through a slot 16 in the curved portion of the gooseneck end of the tube, as shown in Fig. 2, the lever being pivotally mounted by a pin 17, as shown. One end of the lever is pivotally connected at 18 to an actuating rod 19 having a push button 20 at the handle or grip end 3, the rod being provided with a coiled spring 21 to bias it to a normally retracted position. Rod 19 may be made in sections and connected by screw threaded ends 22. When the tube section 1 is 10 removed, the intermediate rod section may also be removed to shorten the rod in conformity with the shortened grip or handle.

The other end of the lever 15 is pivotally connected by a pin 23 to a disc-shaped valve actuator 24, the latter being This invention relates to new and useful improvements 15 loosely mounted on the pin 23 to be self-aligning with the valve plunger 14 with which it effects abutting engagement to depress the valve 14 when the thumb knob 20 is depressed to operate rod 19. In other words, with the container 11 removed from its base, the actuating disc 24 would always maintain its horizontal position in a plane parallel with the base 5 of the container support.

The device is especially adpted for spraying shrubs and plants with insecticides which, because of the long extended handle portion and the actuator knob, permits application of the spray beneath the plants without stooping. Also, by turning the container 11, the nozzle 13 may be disposed in any angle with reference to the grip or handle portion to facilitate spraying.

For some uses as for dispensing air purification liquids, the intermediate handle section 1 and the corresponding rod section may be removed and the handle 3 connected direct to the gooseneck portion 2 to render the dispenser suitable for quick and convenient manipulation without the need for handling or contacting the container 11.

It is evident from the foregoing description of the invention that liquid dispensing devices made in accordance therewith are particularly adapted for use with modern spray liquid dispensing containers, and although one embodiment of the invention has been herein illustrated and described, it will be evident to those skilled in the art that various modifications may be made in the details of construction without departing from the principles herein set forth.

I claim:

1. In a device for directing and releasing aerosol sprays a handle member having one end offset to form a gooseneck with an extended portion and having its other end offset to form a grip, a base for supporting a spray container mounted on the extended portion of the gooseneck end of the handle in a manner to substantially center the container with the gooseneck end of the handle to align the valve of the spray container therewith, an actuator for the spray container valve comprising a bell crank lever pivotally mounted on the gooseneck having a disc pivotally mounted to one end of the lever to be self-aligning with the spray container valve and an actuating rod connected to the other end of the lever and extending the length of the handle with a push button release adjacent the grip portion thereof and spring means for normally biasing the actuator rod in the retracted position.

2. In a device for directing and releasing aerosol sprays a tubular handle having a gooseneck end with an extending portion and having a grip at the other end thereof, a disc-shaped base for supporting a spray container slidably mounted on the extended portion of the gooseneck with a clamping means for securing the same in any adjusted position thereon, a spring means on said gooseneck extension for gripping said spray container and actuating means for operating the spray container valve consisting of a lever extending through a slot in the gooseneck end of the handle and pivotally mounted thereto, a self-aligning disc mounted on one end of the lever for abutting the top

4. A device for directing and releasing sprays as set forth in claim 2 characterized by the handle portion and plunger being constructed of removable sections to lengthen and shorten the same.

of the spray container valve and a plunger pivotally connected to the other end of the lever extending through the hollow portion of the handle and terminating adjacent the handle grip, a push button for said plunger and a spring for normally biasing the plunger to its retracted position. 5

3. A spray directing and releasing device as set forth in the next preceding claim characterized by the spray container supporting base having annular depressions for receiving the edge of the spray container base to center the same in alignment with the valve actuating disc.

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