June 21, 1932. C. C. COVEY 1,863,685

SPRAYING NOZZLE

Filed July 9, 1930

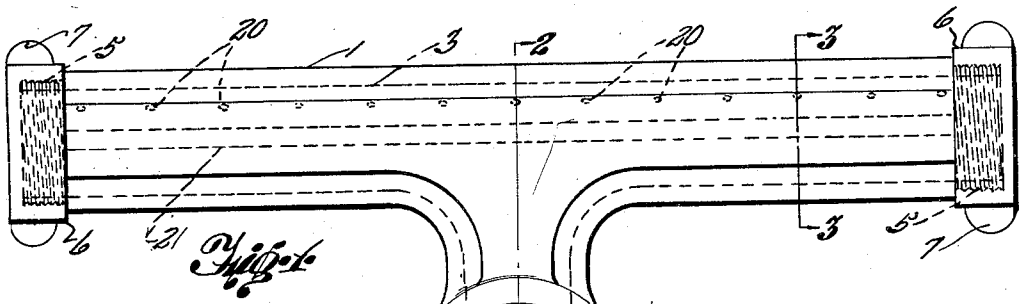


Fig. 1.

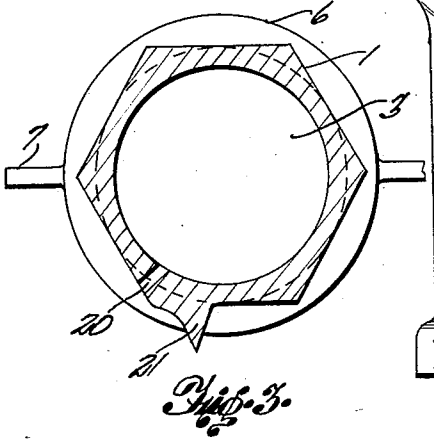


Fig. 3.

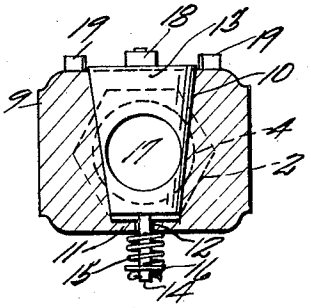


Fig. 4.

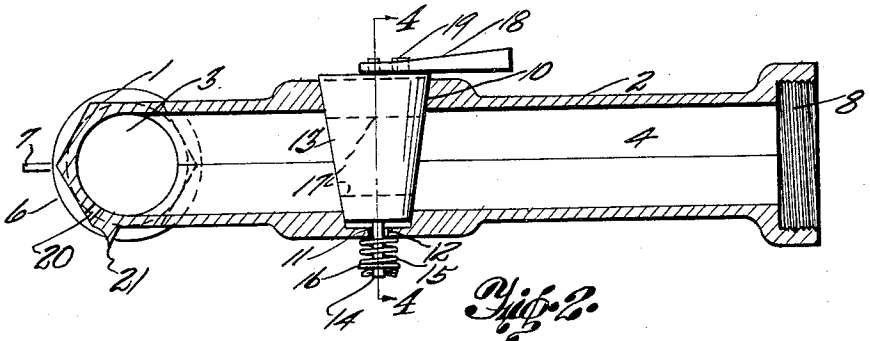


Fig. 2.

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UNITED STATES PATENT OFFICE

CHESTER CARL COVEY, OF CLARKS SUMMIT, PENNSYLVANIA

SPRAYING NOZZLE

Application filed July 9, 1930. Serial No. 466,751.

This invention relates to improvements in spraying nozzles.

The main object is to provide, in a simple and efficient form, a nozzle comprising a spraying pipe or head and a handle secured to the spraying pipe and provided with a conveniently located valve for controlling the spray emitted from the device.

Another and important object is to provide an efficient and novel means to prevent water from dripping or running down from the spraying pipe onto the handle and so coming in contact with the operator's hands.

The foregoing and other objects together with means whereby the same may be carried into effect will best be understood from the following description of a preferred embodiment of the invention taken in connection with the accompanying drawing wherein:

Figure 1 is an elevation of the invention.

Figure 2 is a section along the line 2—2 in Figure 1.

Figure 3 is an enlarged section along the line 3—3 in Figure 1.

Figure 4 is a section along the line 4—4 in Figure 2.

Referring now more particularly to the drawing the reference character 1 designates a spray pipe or spray head and 2 a handle formed preferably integrally with the spray pipe and extended at right angles from a medial point thereof. Both the pipe 1 and handle 2 are provided with the communicating bores 3 and 4 and are preferably though not necessarily, hexagonal in cross section at their outer surfaces as shown. The ends of the spray pipe 1 are rounded and threaded as at 5 and end caps 6 are threaded thereon, the said caps having ears or lugs 7 extended outward from their outer periphery as a means for readily removing the caps without the use of any tools. The end of the handle 2 is flared and internally threaded as designated at 8 to provide a means for attaching the supply hose carrying the liquid to be sprayed to the spray pipe. The handle 2 is bulged outwardly at 9 adjacent the spray pipe 1 and is provided with a tapering valve seat or socket 10, the smaller end of which is partially closed by an annular lip 11 thus providing a central aperture 12 as shown. A tapered valve or plug 13 is rotatably seated in the valve seat 10 and has a stud 14 extended from its smaller end out through the aperture 12. An expansion coil spring 15 is braced between the handle 2 and a collar 16 secured near the end of the stud 14 and this spring thus serves to hold the valve 13 in its seat. The valve 13 has a diametrically extended passageway 17 which when aligned with the bore 4 in the handle 2, allows the water to flow therethrough into the pipe 1. A stem 18 is secured to the larger end of the valve 13 as a means for rotating the said valve and stops 19 are provided on the handle 2 in such position that when the stem 18 is pushed over against either of the stops the passageway 17 will be turned out of registry with the bore 4 to shut off the flow of water through the handle. A plurality of spray apertures 20 are provided through the wall of the spray pipe in a longitudinally extended and spaced row as shown.

In use the handle 2 is connected to the water supply and is grasped between the valve assembly and the flared end 8, the stem 18 being thus conveniently operable by the thumb of the user's hand as will be understood. The spray emitted by the spray apertures 20 may thus be readily controlled and the spray of course may be directed downward, upward or outward at any angle by moving the hand.

In order to prevent water from dripping or flowing back upon the hand of the user a drip lip or shoulder 21 is formed on the pipe 1 and is extended longitudinally along the pipe and located between the spray apertures 20 and the handle 2. It will be readily apparent that water which otherwise would flow back upon the hand of the user will be deflected by the lip 21 and will drip from the edge thereof to fall clear of the hand.

While I have herein set forth a certain preferred embodiment of my invention it is understood that I may vary from the same in minor structural details, not departing from the spirit of the invention and within the scope of the appended claim.

I claim:

In a device of the kind described, an elongated spray head mounted transversely at the end of a water delivering pipe, the said spray head having a plurality of forwardly disposed spray apertures, a drip lip formed along the under side of the spray pipe immediately back of the said spray apertures.

In testimony whereof I affix my signature.

CHESTER CARL COVEY.