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HOSE NOZZLE HOLDER

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1 Claim. (Cl. 248—75)

The present invention relates to new and useful improvements in holders, particularly for fire hose nozzles and has for its primary object to provide, in a manner as hereinafter set forth, novel means for supporting such nozzles in a position for convenient use and without damaging the same.

Another important object of the invention is to provide a holder or support of the aforementioned character which will readily accommodate nozzles of various sizes.

Still another important object of the invention is to provide a holder of the character described from which the nozzle may be quickly removed for use.

Other objects of the invention are to provide a fire hose nozzle holder which will be comparatively simple in construction, strong, durable, compact and which may be manufactured at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a view in side elevation with portions broken away in section, showing a fire hose nozzle holder constructed in accordance with the present invention in use;

Figure 2 is a view in front elevation of the device, showing a portion broken away in section;

Figure 3 is a view in horizontal section, taken substantially on the line 3—3 of Figure 2; and

Figure 4 is a vertical sectional view through the upper portion of the device.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises an elongated base 5 of suitable metal. The base 5, which may be of any desired dimensions, is adapted to be mounted on a suitable support.

Mounted on one end portion of the base 5 is a substantially frusto-conical plug 6 of suitable resilient material which is engageable in the usual large, internally threaded end portion 7 of a conventional fire hose nozzle 8. In the embodiment shown, the base 5 is apertured to accommodate a countersunk bolt 9 which secures the plug 6 in position on said base.

Rising from the other end portion of the base 5 is a tubular standard or post 10 of suitable metal. The post 10 comprises telescopically adjustable upper and lower male and female sections 11 and 12, respectively, which are secured in adjusted position by a set screw 13.

As illustrated to advantage in Figure 4 of the drawing, the upper end portion of the tubular post 10 is vertically slotted, as at 14. A cap 15 closes the upper end of the post 10. Projecting horizontally from the upper end portion of the post 10, on opposite sides of the slot 14, is a pair of ears 16. A metallic arm 17 is pivotally mounted for vertical swinging movement between ears 16, as indicated at 18. The pivot pin 18 passes through an intermediate portion of the arm 17. The arm 17 is operable in the slot 14 and said arm terminates in a substantially rounded inner end 19.

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The arm 17 further includes a longitudinally twisted outer end portion 20 having mounted therebeneath a substantially frusto-conical plug 21 of suitable resilient material which is engageable in the usual small discharge end 22 of the nozzle 8. In the embodiment shown, the plug 21 is molded on the lower end portion of a metallic shank or stem 23 which passes through an aperture provided therefor in the end portion 20 of the arm 17 and to which said stem is affixed. A handle in the form of a T-head 24 is provided on the upper end of the stem 23 to facilitate swinging the arm 17 upwardly.

Mounted in the upper portion of the post 10 is a coil spring 25. A pin 26 supports the spring 25 in the upper portion of the post 10. Mounted on the upper end of the coil spring 25 is a disk or follower 27 which is engaged with the rounded inner end portion 19 of the arm 17 for yieldingly urging the outer end of said arm downwardly. The base 5 has formed therein an opening 28 (see Figure 3), which is aligned with the post 10 for the insertion of the elements 25 and 27.

It is thought that the use of the device will be readily apparent from a consideration of the foregoing. Briefly, the arm 17 is swung upwardly against the tension of the coil spring 25 and the nozzle 8 is mounted on the resilient plug 6, the internally threaded lower end portion 7 of said nozzle receiving said plug. It is to be noted that the nozzle 8 does not contact the base 5 nor does any metal touch the thread of said nozzle. The arm 17 is then released and is swung downwardly by the coil spring 25, with the assistance of gravity, for engaging the resilient, compressible plug 21 in the discharge end portion 22 of the nozzle 8. Thus, the nozzle 8 is firmly but removably secured in the holder. It will be observed that the construction and arrangement is such that the holder will readily accommodate various sizes of nozzles.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

A hose nozzle holder of the character described comprising: an elongated base, a substantially frusto-conical resilient plug mounted on one end portion of said base and engageable in one end of a nozzle, a tubular, telescopically adjustable post rising from the other end portion of the base and having a vertical slot in its upper end portion, an arm pivotally mounted at an intermediate point on said arm for swinging movement in a vertical plane on the upper portion of the post and operable in the slot, a substantially frusto-conical resilient plug on the outer end portion of the arm engageable in the other end of the nozzle for retaining same in an upright position on the base, and a coil spring mounted in the upper portion of the post and engaged with the arm for actuating same for causing the second named plug to engage in the nozzle, said other end portion of said base having an opening therein communicating with the post for the insertion of said coil spring.

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