F. R. PENDERGRASS.

HOSE NOZZLE.

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915,694. **Patented Mar. 16, 1909.**

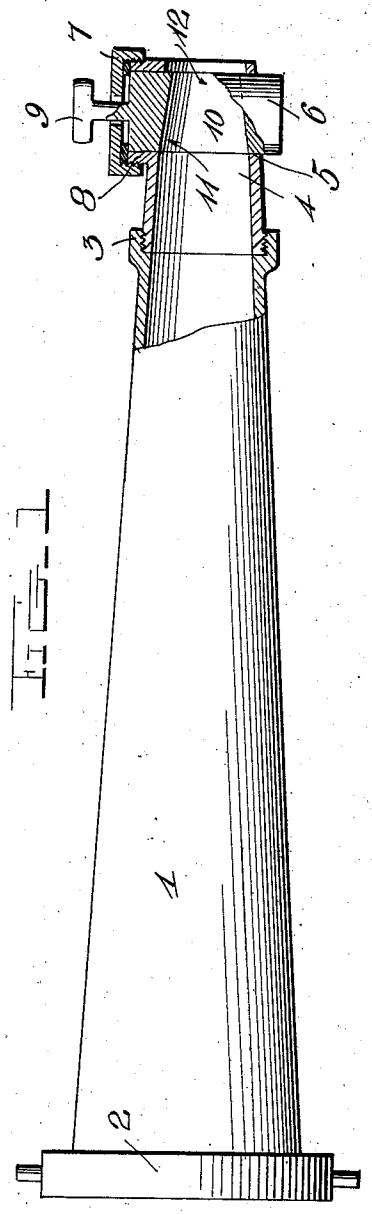


FIG. 1

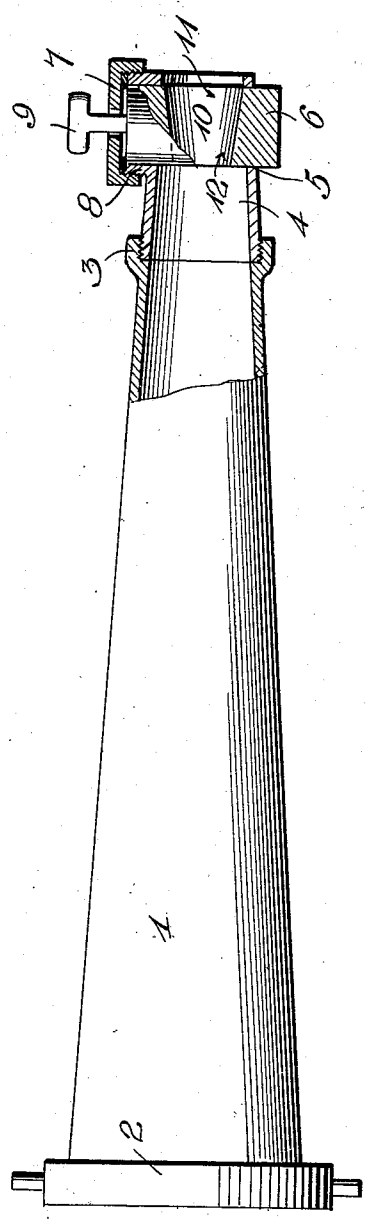


FIG. 2

Witnesses

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HOSE-NOZZLE.

No. 915,694. Specification of Letters Patent. Patented March 16, 1909.

Application filed April 6, 1908. Serial No. 425,532.

To all whom it may concern:

Be it known that I, FINAS R. PENDERGRASS, a citizen of the United States, residing at Cookeville, in the county of Putnam and State of Tennessee, have invented certain new and useful Improvements in Hose-Nozzles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to nozzles and particularly to that type which is used by fire companies.

The object of the invention is the provision of a nozzle which enables firemen to change immediately from a solid-stream nozzle to a spraying device so that they may apply the water to a considerable area for close range fire-fighting.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be described and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a side elevation, with parts in section showing the nozzle plug turned for a solid stream; and Fig. 2 is a similar view with the plug turned for a spraying stream.

Referring more especially to the drawings, 1 represents an ordinary nozzle having at one end an attaching ring, 2, and in this instance, at the opposite end with a screw-threaded neck, 3, adapted to receive a short spout, 4, usually a stream restricting and spraying spout. In this instance the spout, 4, is apertured at 5 to receive the turning plug, 6, which is held in place by a screw cap, 7, threaded to the collar, 8, and is provided with a turning handle, 9. The aperture, 10, through this plug is flared, *i. e.*, the opening, 11, at one end being of much larger diameter than the opening, 12, at the opposite side.

In the position shown in Fig. 1 the opening in the nozzle conforms with the general contour of the interior of the nozzle and gives a solid stream which is applicable for work at long distances.

In Fig. 2 the turning plug is reversed so that the smaller opening, 12, is innermost, and the larger opening, 11, adjacent the exit. With the plug in this latter position, it will be readily seen that a spraying effect is produced and great execution may he had at short distances, the water covering large areas instead of being directed to a single point.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claim.

Having thus described my invention, what I claim as new and desire to secure by Letters-Patent, is:

A combined straight and spraying nozzle comprising a body having a tapering aperture extending therethrough and a threaded collar at its outer end, a discharge spout removably secured to the collar and having a central longitudinal channel tapering to form a continuation of the tapering aperture in the body, said spout and body forming a straight structure, a transverse aperture in the spout forming a plug seat, a threaded nipple having an aperture forming a continuation of the plug seat aperture, a plug seated in said transverse seat and extending therethrough, and a threaded cap engaging said nipple to hold said plug in position, said plug having a tapering aperture whose large end is adapted to register with and is of the same diameter as the channel of the spout.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FINAS R. PENDERGRASS.

Witnesses:

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