(No Model.)

J. STEELE.

SPRAYING DEVICE FOR FIRE HOSE NOZZLES.

No. 492,119. Patented Feb. 21, 1893.

Fig. 1.

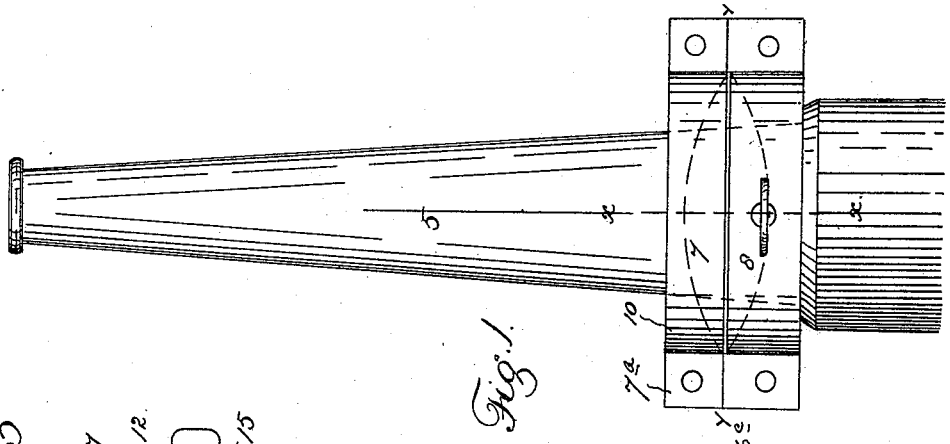


Fig. 3.

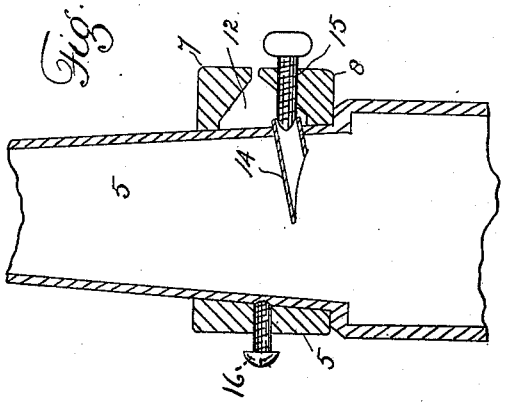


Fig. 2.

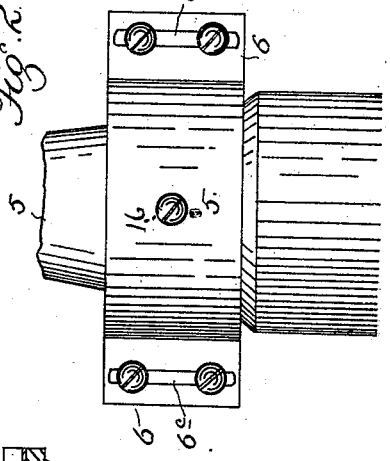
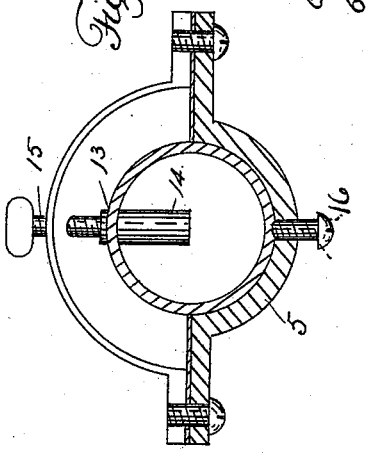


Fig. 4.



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SPRAYING DEVICE FOR FIRE-HOSE NOZZLES.

SPECIFICATION forming part of Letters Patent No. 492,119, dated February 21, 1893.

Application filed May 13, 1892. Serial No. 432,905. (No model.)

To all whom it may concern:

Be it known that I, JOHN STEELE, a citizen of the United States of America, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Spraying Devices for Fire-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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to an improved attachment for fire hose nozzles whereby a spray or sheet of water may be thrown up in front of or over the holder of the nozzle during fires and when the heat would otherwise render it impossible for a man to work in certain positions. This attachment is perfectly adjustable and entirely under the control of the person manipulating it. Hence by a slight adjustment the water is thrown from the nozzle up over or in front of the person manipulating the same, thus permitting him to occupy certain positions advantageous with reference to the burning building and other exposed property, whereby the water issuing from the nozzle is used to the best advantage and the work of the firemen becomes more effective.

The object of the invention is to provide a device of the class stated which shall be simple in construction, economical in cost, reliable, durable and practicable in use.

To this end my improved attachment consists of the features, arrangements and combinations hereinafter described and claimed, and will be fully understood by reference to the accompanying drawings, in which,

Figure 1 is a top or plan view of a hose nozzle provided with my improved attachment. Fig. 2 is an underneath view of the attachment in place. Fig. 3 is a vertical longitudinal section taken through the nozzle on line *x*—*x*, Fig. 1. Fig. 4 is a transverse section taken on line *y*—*y*, Fig. 1.

Similar reference characters indicating corresponding parts or elements of the mechanism let the numeral 5 designate the hose nozzle, 6 a half clasp fashioned to fit the nozzle and provided with flanges 6^a having slots 6^c. The other parts of the clasps are composed of two sections 7 and 8 having apertured flanges 7^a and 8^a. Sections 7 and 8 are connected with part 6 by screw 17 passing through slots 6^c into threaded apertures formed in the flanges of the sections. The shank or stem of the screws passing through the slots is smooth or devoid of threads, hence by loosening these screws sections 7 and 8 may be adjusted so that there shall be a space 10 between them of greater or less width as may be desired. Sections 7 and 8 are cut away underneath leaving a space 12 communicating with slot or opening 10 and into which the water issues from the nozzle through a short tube 14 projecting into the nozzle and open at both ends, its upper extremity engaging a suitable aperture formed in the nozzle for the purpose. This tube preferably occupies an inclined position, that is, with its lower extremity directed toward or against the issuing current of water. Its lower extremity may also be beveled as shown for the purpose of forming a better entrance for the water.

The top of tube 14 may be closed by a screw 15 located in section 8 of the clasp which is provided with a threaded aperture for its reception. The lower extremity of screw 15 is fashioned to close the top of the tube 14 tightly. Hence the passage of the water through the tube into space 12 is controlled by the adjustment of this screw which performs the function of a valve.

The attachment is secured in place upon the nozzle by a set screw 16 located in part 5 of the clasp and adapted to enter a recess formed in the nozzle for the reception of the inner extremity of the screw. As shown in the drawings, when the flanges of sections 7 and 8 are in contact there is a top opening 10 between the sections. This is the minimum space for the passage of water through the attachment and is supposed to be of such width as to answer the requirements under all ordinary circumstances. If a greater space is required, it may be had by loosening screws 17 separating sections 7 and 8 until the space 10 is of sufficient width, and then tightening the screws.

The function of my improved attachment will be readily understood. The water passing through or entering the nozzle from the hose has no effect upon the attachment when

tube 14 is closed by the adjustment of screw 15. When, however, this tube is open the water rushes therethrough into space 12 and out through opening 10 in a thin sheet or spray in front of the person holding the nozzle at the proper inclination. The person is thus enveloped or surrounded by a cooling spray or canopy of water, which makes it possible for him to work in positions and under circumstances which would be unendurable without the aid of my improved device.

Having thus described my invention, what I claim is—

1. A spraying attachment for fire hose nozzles consisting of a slotted clasp or clamp and an open ended tube attached to the nozzle and projecting into the path of the current of water while passing therethrough, the opposite extremity being directed toward the slot in the clasp, substantially as described.

2. In an attachment for fire hose nozzles, the combination of an open ended outlet tube and a slotted clamp connected with the nozzle, said clasp being recessed beneath the slot to form a suitable chamber communicating with the outer extremity of the tube, substantially as described.

3. In an attachment for fire hose nozzles the combination of a slotted clasp and an open ended tube projecting into the nozzle, the clasp being recessed to form a chamber between the slot and the tube and into which the water passes from the tube before issuing from the slot, substantially as described.

4. The combination of a nozzle provided with an auxiliary outlet tube and an adjustable two-part clasp covering the outer extremity of said tube, the parts of the clasp being interiorly recessed to form a suitable chamber and sufficiently separated to form an issuing slot forming the outlet for the chamber, the tube being the inlet thereto, substantially as described.

5. The combination with a nozzle provided with an auxiliary outlet tube, a slotted clasp having a chamber lying between the tube and the slot and an adjustable valve for controlling the issue of water from the tube to the chamber, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN STEELE.

Witnesses:
WM. MCCONNELL,
MURIEL STRODE.