No. 616,757. Patented Dec. 27, 1898.

J. WRIGHT.

NOZZLE.

(Application filed Mar. 26, 1898.)

(No Model.)

Fig. 1.

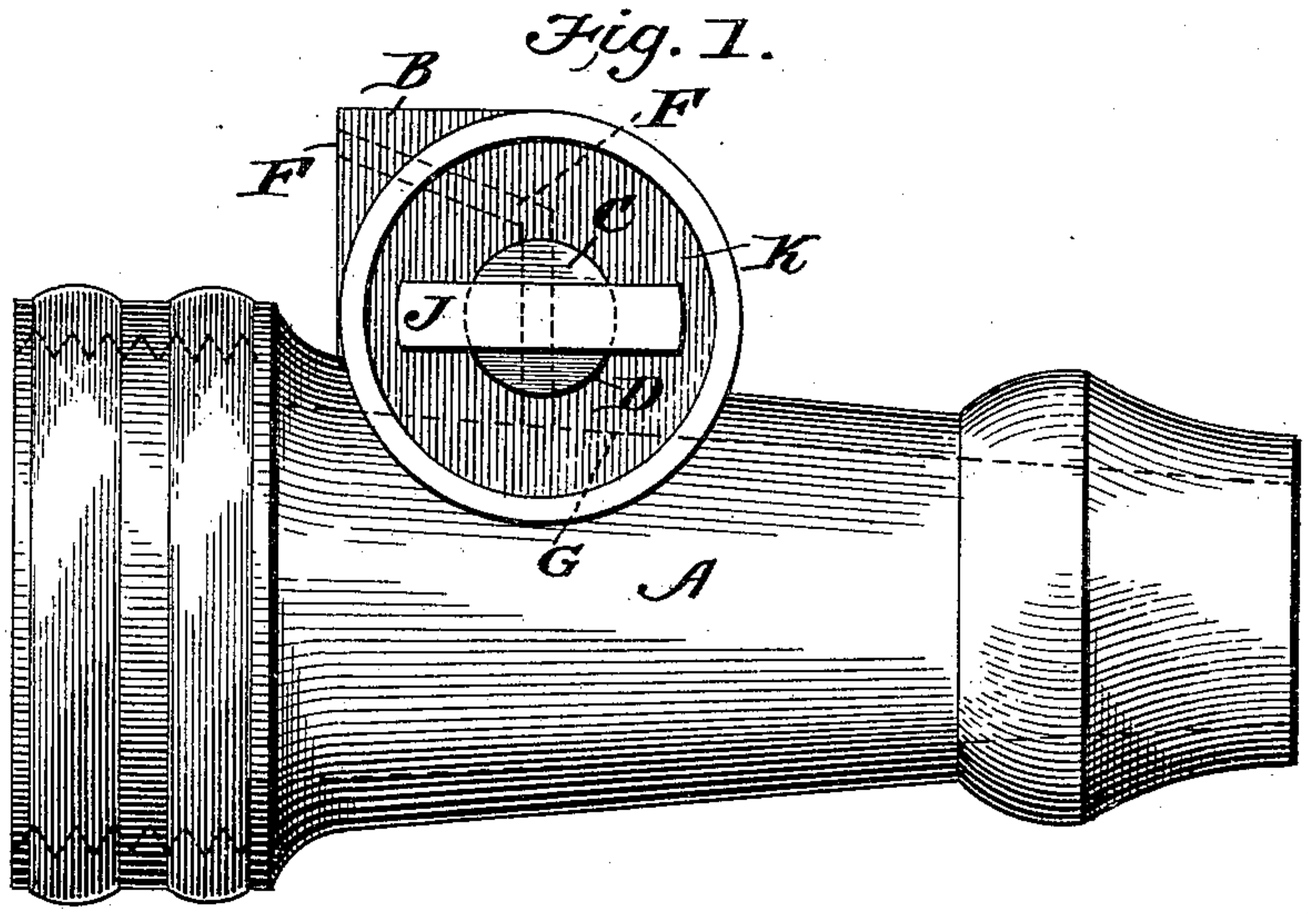

Fig. 2.

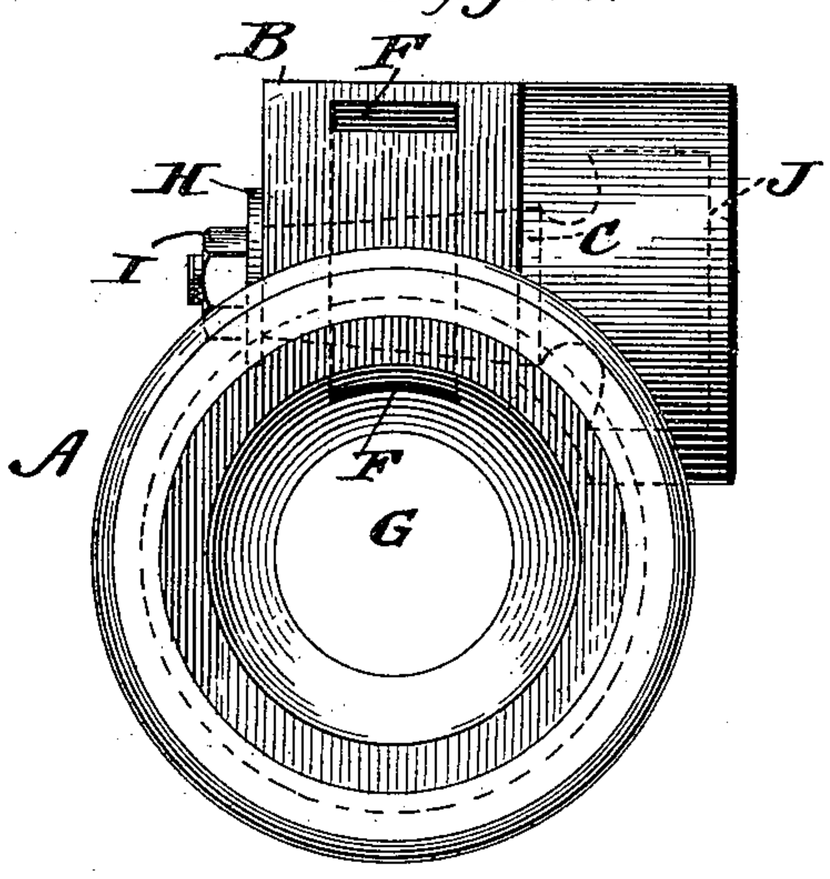

Fig. 3

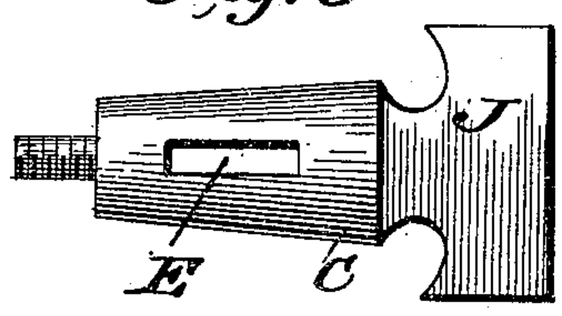

Fig. 4.

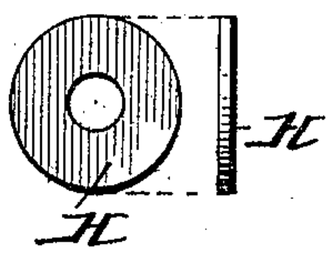

Fig. 5.

WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES WRIGHT, OF ROSLYN, WASHINGTON.

NOZZLE.

SPECIFICATION forming part of Letters Patent No. 616,757, dated December 27, 1898.

Application filed March 26, 1898. Serial No. 675,291. (No model.)

To all whom it may concern:

Be it known that I, JAMES WRIGHT, a resident of Roslyn, in the county of Kittitas and State of Washington, have made certain new and useful Improvements in Nozzles, of which the following is a full, clear, and exact specification.

My invention is an improvement in hose-nozzles, having for an object to provide means for the protection of firemen and others fighting fire in close quarters by furnishing the nozzle with an attachment by which a small stream or spray may be discharged upon the person it is desired to protect; and the invention consists in the novel construction of the nozzle, as will be hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a side view of a nozzle provided with my improvements. Fig. 2 is an end view thereof. Fig. 3 is a detail view of the plug-valve. Fig. 4 is a detail view of a washer, and Fig. 5 shows the nut for securing the plug-valve.

The nozzle A may be generally of ordinary form, either as shown or otherwise, as desired, and is provided with an extension B to one side, such extension forming a valve-chamber for the plug-valve C, which fits the seat D in the casing B and has a port E, which may be turned into and out of register with the port F in the casing B, such port F opening at one end into the bore G of the nozzle and at its other end rearwardly out of the casing B, so it will discharge rearwardly when the valve C is open. The valve C is supplied with a washer H and a securing-nut I at one end and has at its other end the handle J. The handle J of the valve operates within a recess K, formed at one side of the valve-casing B, the handle lying wholly within the recess K, so it will not be accidentally struck at any time in manipulating the nozzle. It will also be seen that the handle J may be readily grasped when it is desired to turn the valve open or shut. By this valve and construction of ports I am able to discharge by the back pressure in the nozzle a stream rearwardly from the port F onto the fireman or other person operating the hose, and the port F is widened laterally, so it will deliver a stream of considerable width, the force of which may be regulated by the extent to which the valve C may be turned, and it is obvious the nozzle may be partially rotated from time to time and otherwise manipulated to secure a delivery or discharge of the protecting-stream to any point desired by the hoseman.

By my invention I provide for delivering the protecting-stream by the party manipulating the hose, thus avoiding the necessity of a separate hoseman to discharge the protecting-stream on the one in the exposed position and putting the control of the protecting-stream in the hands of the one to be protected, so its use and extent can be regulated by him as the occasion may require.

The invention will be found useful in protecting firemen or others entering burning structures or structures or locations wherein the smoke is so dense that they could not otherwise enter in safety.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A hose-nozzle having at one side a valve-casing having a port communicating with the bore of the nozzle and its outer end arranged to discharge a protecting-stream upon the hoseman, and the valve operating in said casing substantially as set forth.

2. A nozzle having at one side a valve-casing provided with a port communicating with the bore of the nozzle such casing being provided at one end with a recess, and the valve turning in the casing and controlling the port thereof and provided with a handle lying in the end recess of the casing substantially as set forth.

3. A nozzle having a valve-casing provided with a port by which to deliver a protecting-stream, such port being widened laterally, and a valve controlling such port substantially as set forth.

4. A nozzle provided at one side with a casing having a port arranged to discharge rearwardly, and a valve controlling such port substantially as set forth.

JAMES WRIGHT.

Witnesses:
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STEPHEN LUMSDEN.