

J. H. McCONNELL.

Nozzles.

No. 156,300.

Patented Oct. 27, 1874.

Fig. 1

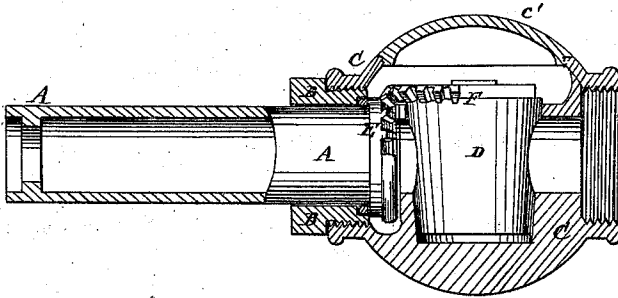


Fig. 2

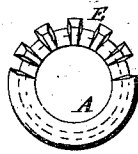
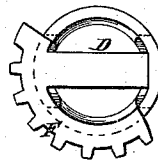


Fig. 3



WITNESSES:

A. W. Amqvist
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UNITED STATES PATENT OFFICE.

JAMES H. McCONNELL, OF NEW YORK, N. Y.

IMPROVEMENT IN NOZZLES.

Specification forming part of Letters Patent No. **156,300**, dated October 27, 1874; application filed September 26, 1874.

To all whom it may concern:

Be it known that I, JAMES H. McCONNELL, of New York city, in the county and State of New York, have invented a new and useful Improvement in Bevel-Gear Shut-Off Nozzle, of which the following is a specification:

Figure 1 is a longitudinal section of my improved bevel-gear shut-off nozzle. Fig. 2 is a detail view of the inner end of the nozzle. Fig. 3 is a detail top view of the valve-plug.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved hose-nozzle, which shall be so constructed that the fireman who holds the nozzle can shut off the water wholly or partly whenever desired, and which shall present no handle or other obstruction to catch upon anything or be in the way.

The invention consists in the combination of the segmental bevel-gear wheels with the nozzle, the bulb, and the plug, as hereinafter fully described.

A represents the nozzle, which is constructed in the ordinary way, and is swiveled by a ring-nut, B, to the bulb C of the shut-off cock or valve. D is the plug, which is inserted through a hole in the side of the bulb C, which

hole is closed by a screw-cap, *c'*. The cap *c'* is so formed that its outer surface may be continuous with the surface of the bulb C. Upon the inner end of the nozzle A is formed a segment, E, of a bevel-gear wheel, the teeth of which mesh into the teeth of the segment F of a bevel-gear wheel formed upon the top of the plug D.

By this construction, by turning the nozzle A in one direction, the plug D will be turned to allow the water to flow through the said nozzle, and by turning the nozzle in the other direction the water will be shut off. The bulb C may be made with double walls, to give it the necessary strength without making it too heavy for convenient use.

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

The combination of the segmental bevel-gear wheels E F with the nozzle A, bulb C, and the plug D, substantially as herein shown and described.

JAMES H. McCONNELL.

Witnesses:

JAMES T. GRAHAM,
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