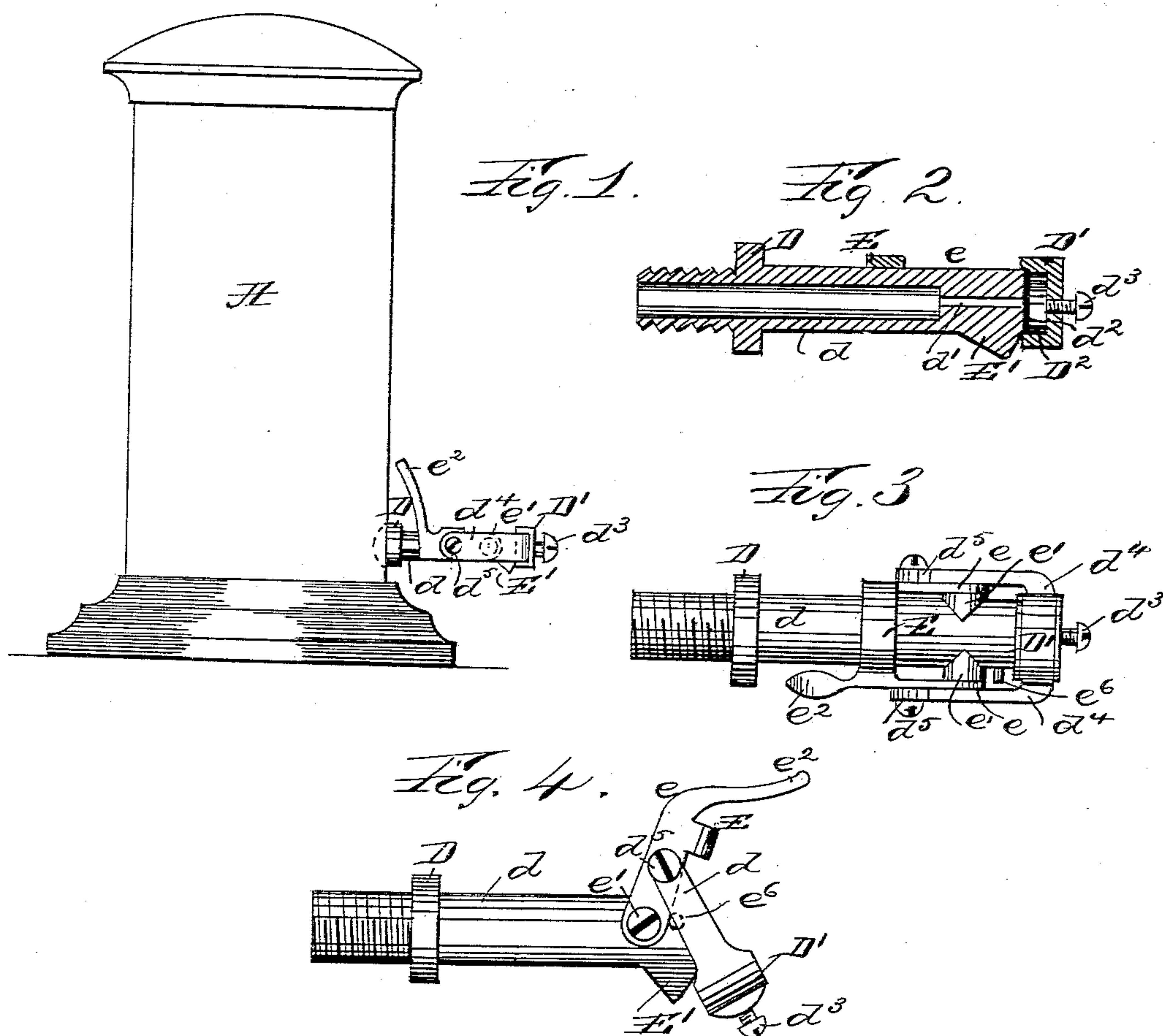


(No Model.)

D. CURELL.
NOZZLE FOR FIRE EXTINGUISHERS.

No. 504,564.

Patented Sept. 5, 1893.



Witnesses
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NOZZLE FOR FIRE-EXTINGUISHERS.

SPECIFICATION forming part of Letters Patent No. 504,564, dated September 5, 1893.

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To all whom it may concern:

Be it known that I, DANIEL CURELL, of Hamilton, Ontario, Canada, a subject of the Queen of Great Britain, residing in Brooklyn, in the county of Kings and State of New York, have invented a certain new and useful Improvement in Nozzles for Fire-Extinguishers, of which the following is a specification.

This invention relates more particularly to that class of fire extinguishers in which a liquid is ejected from a container and it consists of the novel arrangement and construction of parts of a nozzle or outlet used in connection with the container.

I will describe a nozzle or outlet embodying my invention and then point out the novel features in the claim.

In the accompanying drawings, Figure 1, is a side elevation of a container and nozzle embodying my invention. Fig. 2, is a longitudinal section of the nozzle. Fig. 3, is a top plan view thereof. Fig. 4, is a side view showing the nozzle as open.

Referring by letter to the drawings, A, designates a container for an extinguishing liquid. The container is here shown as cylindrical and tightly closed at its top and bottom.

D, designates the nozzle or outlet comprising a tubular portion d , having a restricted outlet d' , at its outer end. The inner end of the tubular portion d , may be screw-threaded to engage in a tapped hole in the wall of the container A.

D', shows the cap or cut-off for the nozzle. The cap or cut-off has an air chamber D^2 , formed in it, and a disk d^2 , of flexible material, such as rubber, is seated in the outer portion of this chamber, and is adapted to engage against the end of the nozzle and seal or close the outlet d' . The chamber D^2 , has an outward opening through the wall of the cap D' ; and this opening is normally closed by means of a screw d^3 . When it is desired to refill the chamber D^2 with air the screw d^3 is removed, and when replaced the air in the chamber will serve as a cushion and support the disk d^2 against the pressure of gas in the

container A. The cap or cut-off D' , has integral rearwardly extended arms d^4 , having pivotal connections d^5 , with forwardly extending arms e of a yoke lever E. The arms e of the yoke lever E, have pivotal connections e' , with the sides of the nozzle, and a hand piece e^2 , extends upward from the yoke lever. It will be seen that the pivotal points d^5 , of the arms d^4 , are between the ends of the arms e , of the yoke lever, so that when said yoke lever is forced downward, as shown in Figs. 1, and 3, the cap or cut-off will be drawn rearward and cause the disk d^2 , to bear tightly against the end of the nozzle and the parts will remain in this position against the pressure of gas in the container because the pivots d^5 , e' , are on substantially the same horizontal plane. In case of fire and it is desired to discharge extinguishing liquid thereon it is only necessary to pull forward on the hand piece e^2 , until the parts assume the position shown in Fig. 4. A stop e^3 may be provided for the hand piece.

For convenience in closing the cap or cut-off over the end of the nozzle and to render it unnecessary to use two hands in the operation, I provide a guide for swinging the cap or cut-off outward to the end of the nozzle when the yoke lever is forced back. This guide consists of a downwardly projecting lug E' , on the lower side and at the front end of the nozzle. This lug may be inclined on its front edge as shown.

Having described my invention, what I claim is—

A nozzle having in combination a tubular portion, a cap or cut-off having an air chamber, a yielding disk in said chamber, a yoke lever having its arms pivoted to the nozzle at the sides, arms extending rearward from the cap or cut-off and pivoted to the arms of the yoke lever, and a guide on the lower side of the nozzle and having an inclined front edge, substantially as specified.

DANIEL CURELL.

Witnesses:

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