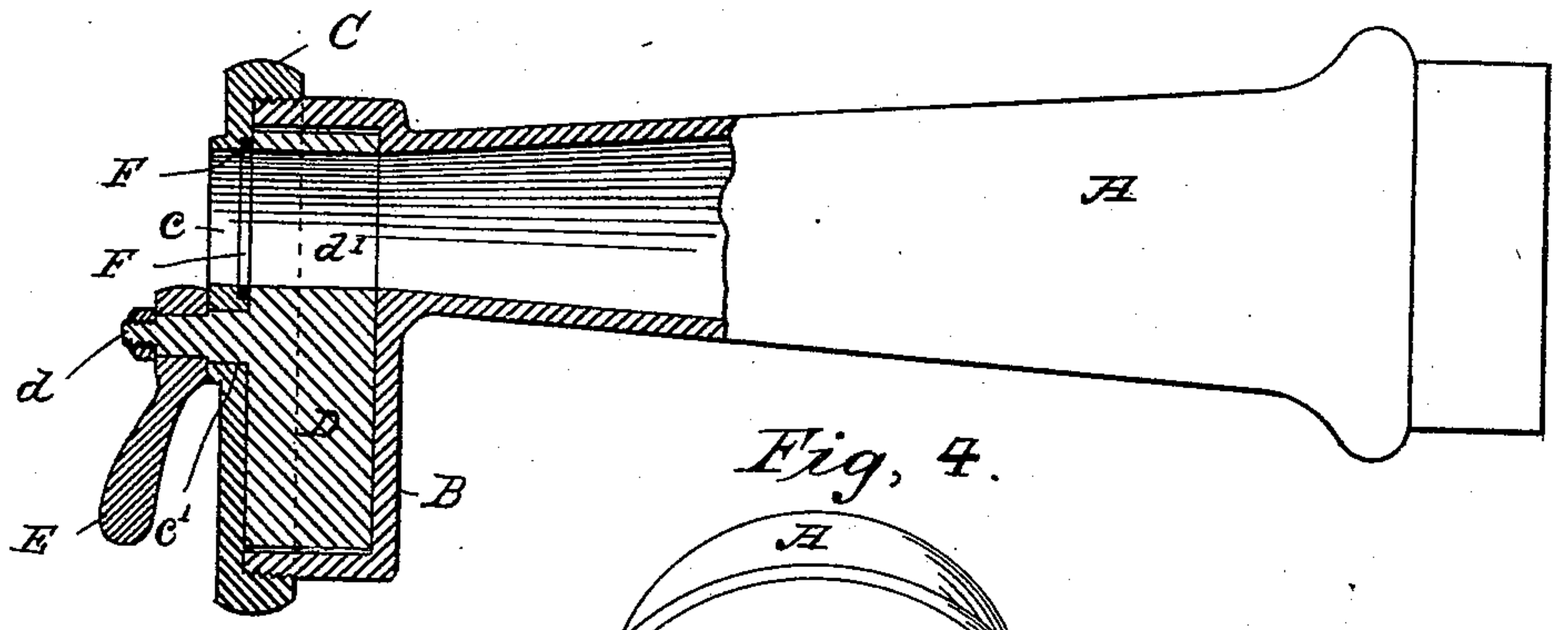
(No Model.)

F. W. SCOTT.

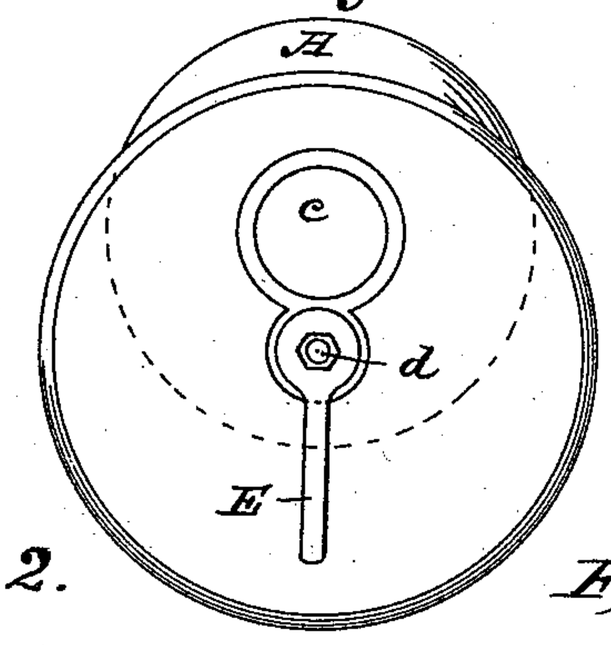
SHUT-OFF NOZZLE.

No. 464,335. Patented Dec. 1, 1891.

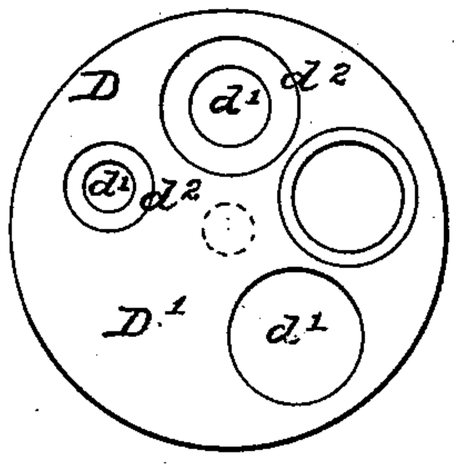
Fig, 1.



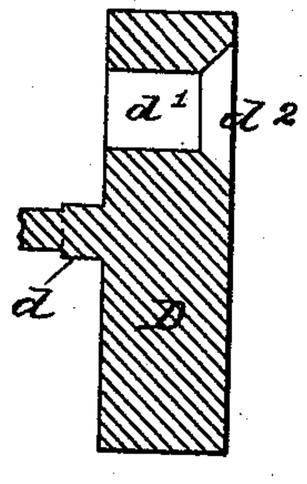
Fig, 4.



Fig, 2.



Fig, 3.



Witnesses

Wm. Nelson

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UNITED STATES PATENT OFFICE.

FRED W. SCOTT, OF CONCORD, NEW HAMPSHIRE.

SHUT-OFF NOZZLE.

SPECIFICATION forming part of Letters Patent No. 464,335, dated December 1, 1891.

Application filed April 18, 1891. Serial No. 389,402. (No model.)

To all whom it may concern:

Be it known that I, FRED W. SCOTT, a citizen of the United States, residing at Concord, in the county of Merrimac and State of New Hampshire, have invented certain new and useful Improvements in Shut-Off Nozzles; and I do hereby 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.

The object of this invention is to make a hose-nozzle capable of discharging streams of various sizes as well as to shut off the discharge, when desired.

The invention consists of the peculiar construction of the tip of a nozzle, whereby an annular enlargement is formed eccentrically thereon for the reception of a perforated disk mounted concentrically in said enlargement, and in means for revolving the disk for bringing the perforations therein in line with the discharge-orifice in said nozzle, all of which will be fully set forth in the following specification and claim, and clearly illustrated in the drawings forming a part of and accompanying the same, of which—

Figure 1 represents a sectional elevation of my improved nozzle, Fig. 2 being an elevation of the improved revolving perforated disk by means of which streams of various diameters are discharged from the nozzle at pleasure. Fig. 3 is a vertical section of same, and Fig. 4 is an elevation of the improved nozzle complete as when viewed at its discharge end.

A is the nozzle, having at its discharge end an eccentrically-arranged enlargement B, to which a cap C may be threaded, as seen in Fig. 1. The cap C has an opening *c* formed at one side of its center, which in size corresponds with the size of the discharge-orifice of the nozzle A and may be placed in line therewith, and a smaller opening *c'* in its center, as seen in Fig. 4. The disk D is made a movable fit for the enlargement B, and is mounted (by means of a stud *d*) in the central opening *c'* of the cap C, the said stud extending through and beyond the cap and being provided with an arm E, by which to rotate the said disk. The holes *d'* may be of any desired diameter, one of which should correspond with that of the discharge-orifice of the nozzle, while the others may vary from that to a quite small hole—say one-quarter inch. The center of all holes *d'* will be equidistant from the stud *d*, in order that each may be readily brought in line with the discharge-orifice of the nozzle, and all holes which are smaller will be countersunk at that side where the water enters, as at d^2, Figs. 2 and 3. A surface D' will be left upon the disk, of sufficient size to fully cover the discharge-orifice of the nozzle and to prevent leakage when the disk is revolved, so as to bring the part D' in position to close said discharge-orifice. A washer F may be placed in an annular groove formed for the purpose in the edge of the opening *c* of the cap C, as shown in Fig. 1. The disk does not require a complete revolution, and hence the handle-bar E need not pass over the discharge-orifice of the nozzle.

Having described my improvements, what I claim is—

In a shut-off hose-nozzle, a circular enlargement formed at its tip and eccentric therewith, a rotary disk fitting therein and having various openings equidistant from its center, which may be brought in line with the discharge-orifice of said nozzle, a cap-piece having an opening opposite the discharge-orifice of said nozzle, and suitable means for turning said disk, all substantially for the purpose set forth.

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

FRED W. SCOTT.

Witnesses:
J. B. THURSTON,
JAS. H. MORRIS.