E. R. TOMLINSON.

HOSE AND PIPE NOZZLE.

No. 191,199. Patented May 22, 1877.

Fig. 1.

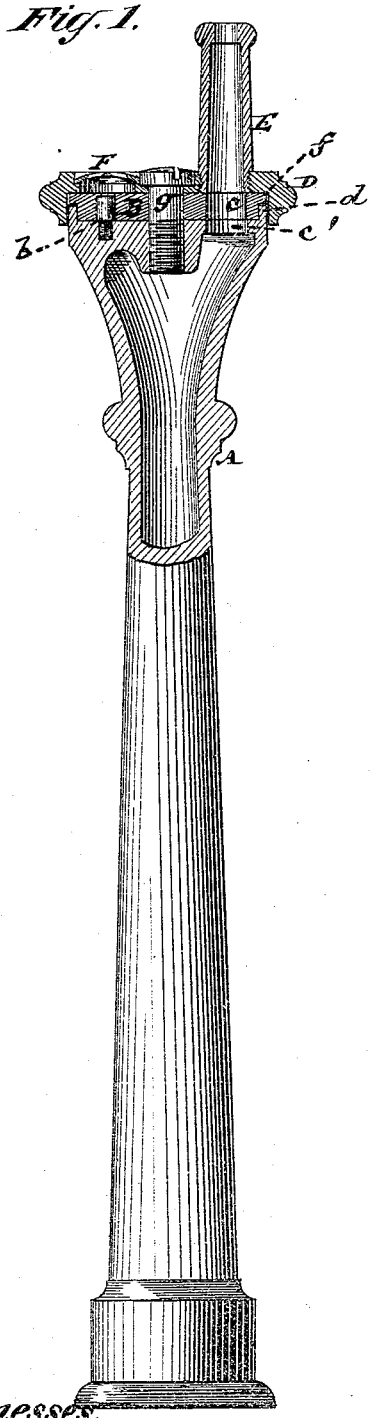


Fig. 2.

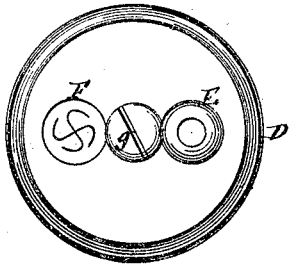


Fig. 4.

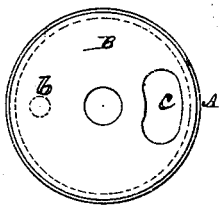
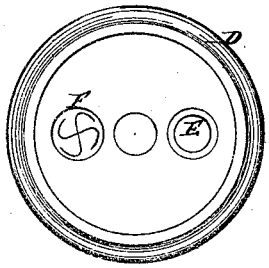


Fig. 3.



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UNITED STATES PATENT OFFICE.

EDWIN R. TOMLINSON, OF BRIDGEPORT, CONN., ASSIGNOR TO HIMSELF AND THE EATON, COLE & BURNHAM COMPANY, OF SAME PLACE.

IMPROVEMENT IN HOSE AND PIPE NOZZLES.

Specification forming part of Letters Patent No. **191,199**, dated May 22, 1877; application filed April 26, 1877.

To all whom it may concern:

Be it known that I, EDWIN R. TOMLINSON, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in Hose and Pipe Nozzles, which improvement is fully set forth in the following specification and accompanying drawing.

This invention relates to nozzles for hose and pipe to be used in gardens and elsewhere, in which provision is made by simply turning the cap or head of the nozzle for discharging the water, either in a compact stream through a jet-tube, or for discharging it in the form of a spray through a sprinkler.

The invention consists in a novel construction and combination of certain parts or devices pertaining to such a nozzle, whereby great simplicity is combined with perfect efficiency.

Figure 1 represents a partly sectional longitudinal view of a hose or pipe nozzle constructed in accordance with the invention; Fig. 2, an outer end or face view of the adjustable or turning cap, by which the discharge is or may be changed from a solid or compact stream into a spray, or vice versa. Fig. 3 is an inner or under face view of said cap, and Fig. 4 an outer end or face view of the nozzle, with said cap removed.

A is the main body or pipe portion of the nozzle, made flaring at its outer end, and constructed to receive within or on the outer face of said end a disk-packing, B, of leather or other suitable flexible material. This disk is restrained from turning by means of an eccentric or lateral projection, *b*, on the closed outer end or face of the flaring portion of the main body A of the nozzle, made to enter said disk B, which latter has an eccentrically-arranged aperture, *c*, through it, corresponding with a similarly-arranged aperture, *c'*, in the outer end or face of the flaring portion of the main body A of the nozzle.

D is a rotating or turning cap, constructed to receive within it a cupped or annular outer end, *d*, of the flaring portion of the main body A, and a flange, *f*, of the disk B. This turning cap D is provided on one side of its center with a jet-tube, E, for discharging the water in a solid or compact stream, and on another or opposite side of its center with a spraying device, F, both of which—that is, the jet-tube E and spraying device F—are at equal distances, or thereabout, from the axial center of the turning cap D, so that either said jet-tube E or spraying device F may be brought over the aperture *c c'* in the outer end of the main body A and disk B of the nozzle. Said cap D is held down to its place on the disk B and outer flaring end of the main body A of the nozzle, with facility for turning said cap to bring either its jet-tube E or spraying device F over or in line with the apertures *c c'*, or out of line therewith, to shut off discharge by means of a central screw, *g*, which forms the axis of rotation of the cap, and provides for tightening up the cap to form a close joint on the disk B.

This construction is at once cheap, simple, durable, and convenient, and provides in a very efficient manner either for discharge of the water in a solid stream or for its distribution in a spray, as desired. Either a heavy spray or a very fine one may be obtained by but slightly turning the cap D, when the spraying device F is over the aperture *c*.

I claim—

The combination, with the pipe portion A, having a flaring outer closed end and the aperture *c'*, of the flexible flanged disk B, having the eccentric aperture *c*, lateral projection *b*, for preventing the disk turning, and the turning flanged disk D, secured to the flaring end of the pipe by set-screw *g*, and provided with jet-tube E and spraying device F, substantially as and for the purposes set forth.

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Witnesses:

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