A. B. PROUTY.

Adjustable Nozzle for Hose.

No. 225,721. Patented Mar. 23, 1880.

FIG. 1.

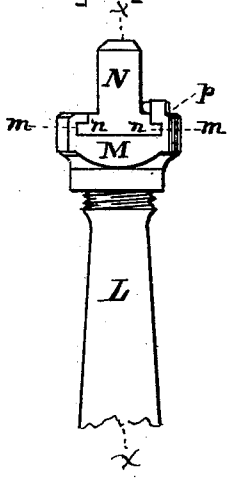
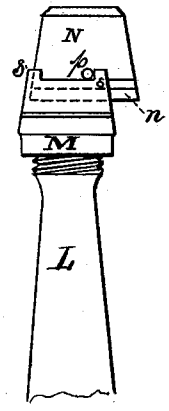


FIG. 2



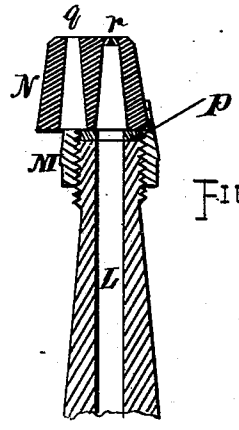


FIG. 3

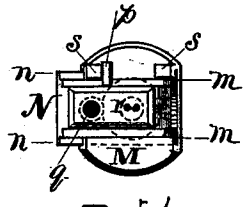


FIG. 4

Witnesses.

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ADJUSTABLE NOZZLE FOR HOSE.

SPECIFICATION forming part of Letters Patent No. 225,721, dated March 23, 1880.

Application filed September 6, 1879.

To all whom it may concern:

Be it known that I, AUGUSTUS B. PROUTY, of Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Adjustable Nozzles for Hose; and I declare the following to be a description of my said invention sufficiently full, clear, and exact to enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents a side view of my improved adjustable nozzle. Fig. 2 is a side view of the same at a right angle to Fig. 1. Fig. 3 is a central section at line X X, Fig. 1; and Fig. 4 is an end view, showing the face of the orifice-block.

My invention consists in the adjustable discharge-nozzle, constructed substantially as described, with a sliding orifice-block for spray and full streams, adapted to be held in position by pressure against its packing when screwed onto the hose-pipe, as more fully hereinafter set forth.

The construction of my improved nozzle is as follows: A thimble or ring head, M, screw-threaded on its interior, is fitted to screw onto the threaded end of the hose-pipe L, and in the upper part of said ring-head M, across its central opening, is fitted a laterally-sliding block, N, in which the various forms of orifices are constructed.

The orifice-block N projects from the face of the head M, and is held thereto by flanges *n* working in undercut or equivalent grooves *m* on the head, as indicated, while a pin or stop, *p*, arranged to engage the shoulders or projections *s*, limits the movement of the block N and prevents it from falling from the groove of the head M.

A packing-ring, P, of leather or other suitable material, is arranged within the head M, occupying a position directly between the end of the hose-pipe L and the under surface of the orifice-block N, so that when the head-ring M is screwed down onto the pipe L the packing-ring P is pressed against the block N with sufficient force to retain said block N at any adjusted position, at the same time forming a water-tight joint between the parts.

Adjustment of the nozzle is effected by slightly unscrewing the head and then sliding the block N to the desired position, and then again screwing the head down, the operation being quickly and conveniently performed. The flat form of the block N serves as a thumb-piece, to facilitate screwing the head M on and off from the pipe L, and for the ready adjustment of nozzle, as desired.

The orifice-block N may be made of any desired length and be provided with a greater or less number of orifices. In the present instance it is fitted with a full-stream opening, *q*, and a spray-orifice, *r*, the latter consisting of two small openings directed toward each other, as indicated, to cause the streams of water projected therefrom to impinge against each other and break into a spray. A coarser spray or sprinkling stream may be obtained by adjusting the block N, so that a portion of the water will pass out at each of the openings *q r*. This nozzle made with the two forms of orifices *q r*, as shown, is adapted for ordinary uses in sprinkling lawns and gardens, washing windows and carriages, and for similar domestic purposes; but the size of the nozzle and form of the orifices may be varied to suit the requirements of the service for which it is designed to be used.

What I claim as of my invention, and desire to secure by Letters Patent, is—

1. A nozzle for hose, provided with a sliding orifice-block having a series of discharge-openings, and arranged to be retained in adjusted position by pressure against its packing-ring when the nozzle is screwed onto the end of the hose-pipe, substantially as hereinbefore set forth.

2. The adjustable hose-nozzle consisting of a block provided with a series of discharge-orifices, and adapted, by suitable interlocking flanges and grooves, to be movably retained across the face of a screw-threaded ring or thimble fitted onto the end of the hose-pipe in such manner that said block will be retained

at adjusted position, by pressure against the hose-pipe end or end packing when the thimble is screwed down, as hereinbefore set forth.

3. In combination, substantially as hereinbefore described, the hose-pipe L, having external screw-threads, the internally screw-threaded ring M, with grooves *m*, the sliding block N, with flanges *n* and discharge-openings *q r*, and the packing-ring P, for the purposes set forth.

4. The combination of the screw-threaded ring M, having grooves *m* and projections or lugs *s*, and the flat-sided orifice-block N, with flanges *n* and stop-pin *p*, for the purposes set forth.

Witness my hand this 1st day of September, A. D. 1879.

AUGUSTUS B. PROUTY.

Witnesses:

CHAS. H. BURLEIGH,

S. K. BARTON.