

S. C. WENTWORTH.
Hose-Pipe Nozzles.

No. 151,735.

Patented June 9, 1874.

Fig. I.

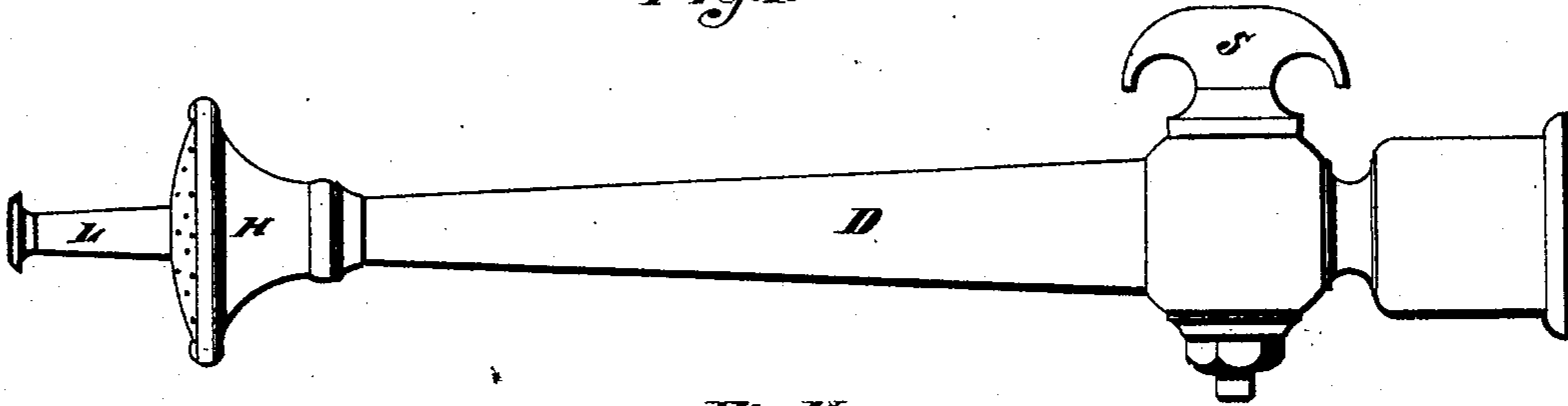


Fig II.

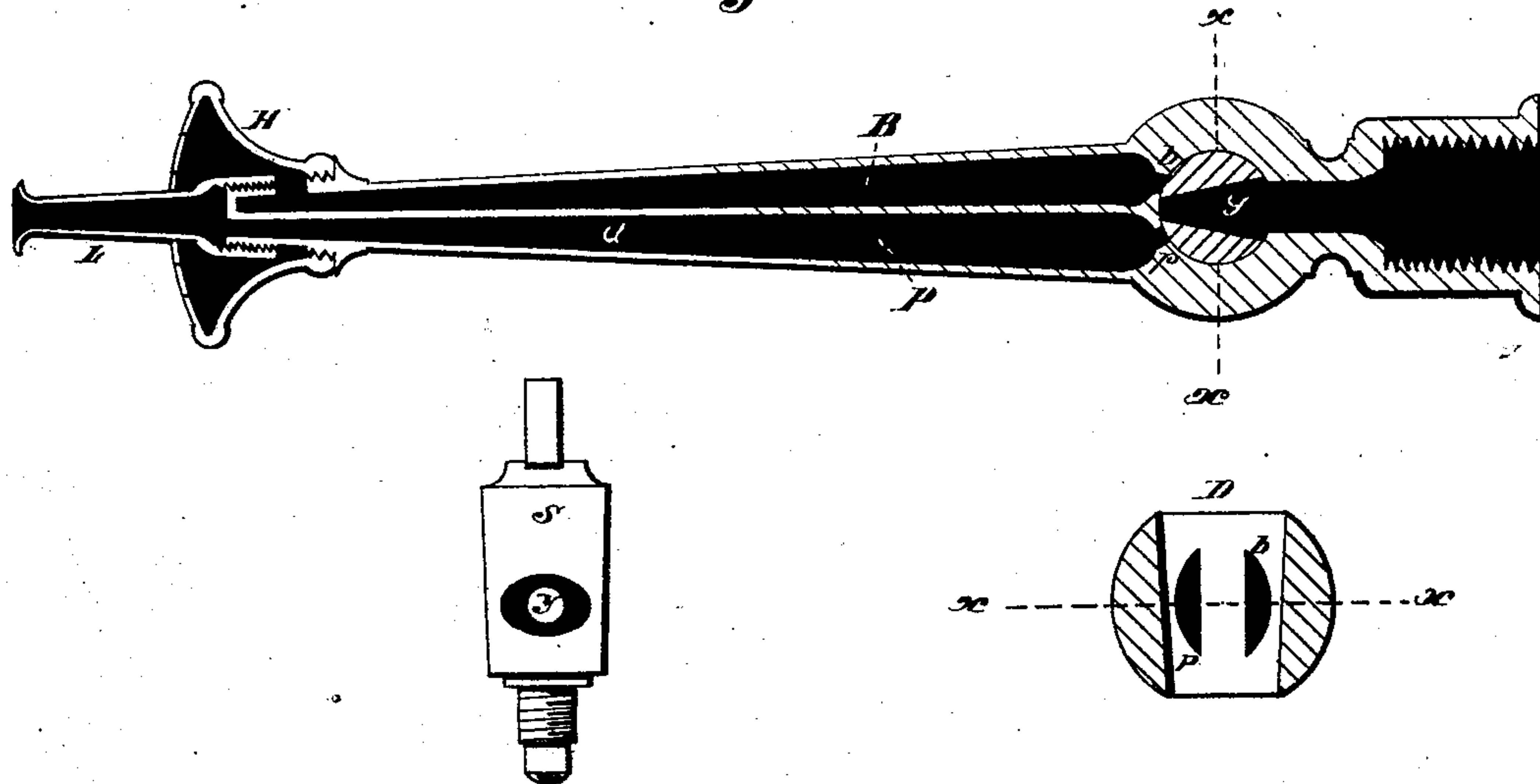


Fig. III.

Fig IV.

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SAMUEL C. WENTWORTH, OF HAYDENVILLE, MASSACHUSETTS.

IMPROVEMENT IN HOSE-PIPE NOZZLES.

Specification forming part of Letters Patent No. **151,735**, dated June 9, 1874; application filed February 27, 1874.

To all whom it may concern:

Be it known that I, SAMUEL C. WENTWORTH, of Haydenville, Hampshire county, State of Massachusetts, have invented an Improved Combined Sprinkler and Tip Hose-Pipe, of which the following is a specification:

My invention consists in an improved hose-pipe having a combined sprinkler and tip, which, by the revolution of the plug at the base of the pipe, can be used alternately or simultaneously.

In the drawings, Figure I is a view of the outside; Fig. II, a longitudinal section; and Figs. III and IV are detail views.

Longitudinally in the tapering pipe D is formed the partition *d*, and of the passages thus made, the one B is constructed within the sprinkler H, while the one P is prolonged to form the tip L. Next to the plug S the ways B and P are reduced to form the ports *b p*, for a purpose hereinafter described. The plug S has a conical port, *y*, formed through it, substantially as shown in Fig. III, larger upon one of its ends than upon the other, so that when the plug is in the position shown in Fig. II, the flow of water from the hose has access through neither of the ports *b* or *p*, the apex of port *y* being then between them; but upon a half-turn being given to the plug and the position of its port reversed, the water is free to pass through both, and it will be seen that only a partial revolution of the plug in either direction, when in the position shown in Fig. II, will be sufficient to form a direct water-way through it from the hose to either the sprinkler or tip. I prefer in construction to cast the pipe with the division *d*, though, without a departure from the principle of my invention, both or either of the ways B P may be made of pipes fitted into a case, so as to form separate water-passages, and so as to be

similarly connected or disconnected through the plug. The tip L is screwed upon the pipe, and the sprinkler is fitted over the tip and screwed also upon the pipe, so when in place they mutually support each other, and the sprinkler tends to prevent the tip from unscrewing.

I am aware that hose-pipes have been commonly made with combined sprinkler, tip, and valve-plug at the nozzle end of the pipe, but make no claim to this arrangement and construction, as in my invention the plug is placed at the base of the pipe, where it is operated more conveniently than it could be at the other end of the pipe, where the stock does not have to be increased to afford a bearing and where the hand is entirely removed from being covered with water, as is common in the well-known combination-nozzles; and by my arrangement of the plug, in combination with the dividing partition with its parts, I am able to simplify the construction of the plug, and avoid the weakness and liability to become obstructed consequent upon the use of a number of ports through the plug; and the water, after passing through the plug, has the entire length of the pipe to be compressed in through its taper.

Now, having described my invention, what I claim is—

In combination with the partition *d*, dividing the hose-pipe into the passages B P, leading, respectively, to the sprinkler and tip, and provided with the ports *b p*, the plug S, with its single port *y*, substantially as shown and described.

SAMUEL C. WENTWORTH.

Witnesses:

JOSEPH H. WENTWORTH,
LEWIS PORTER.