

W. J. BALDWIN.

Hose-Nozzles.

No. 151,823.

Patented June 9, 1874.

Fig. 1.

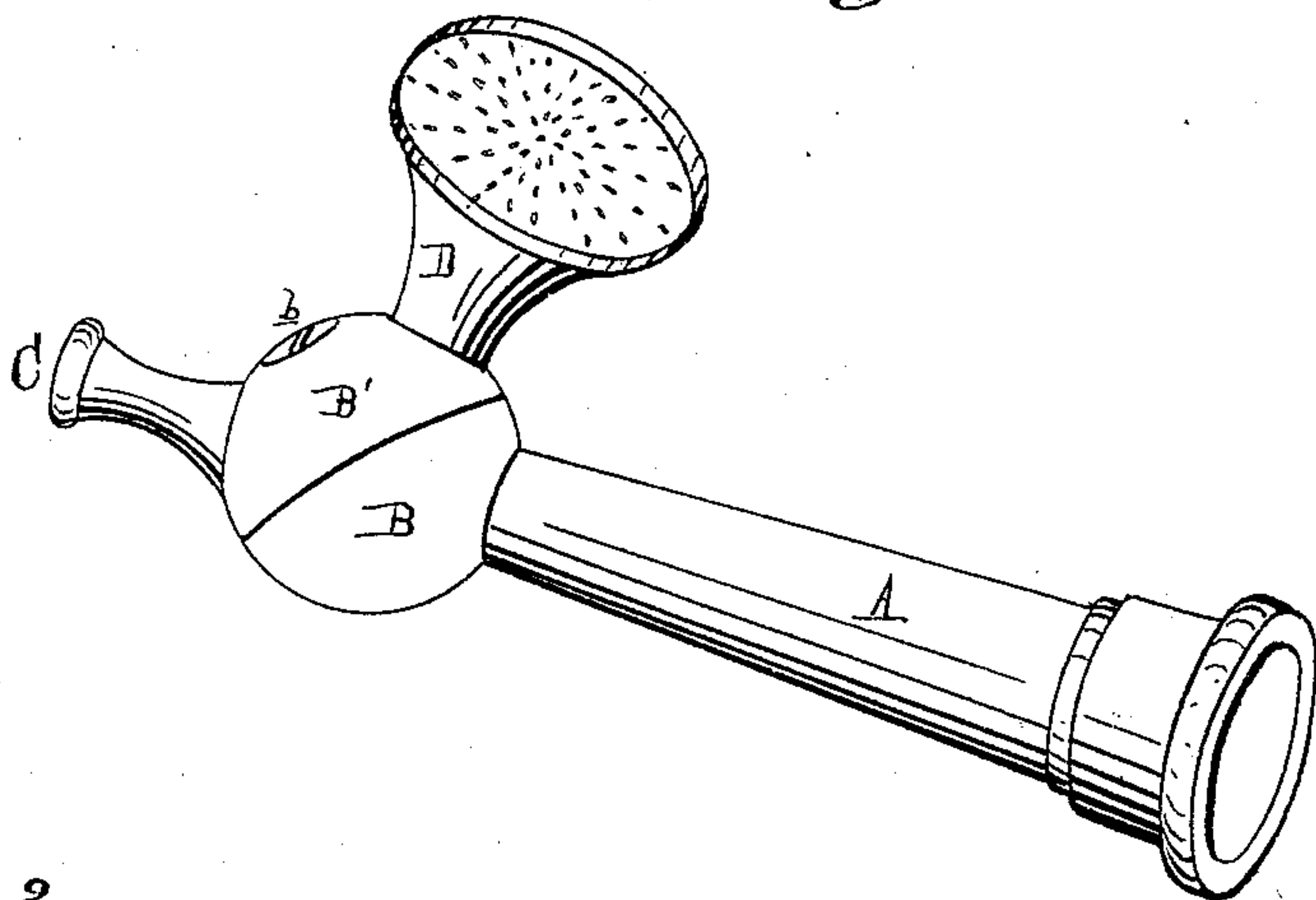


Fig. 2.

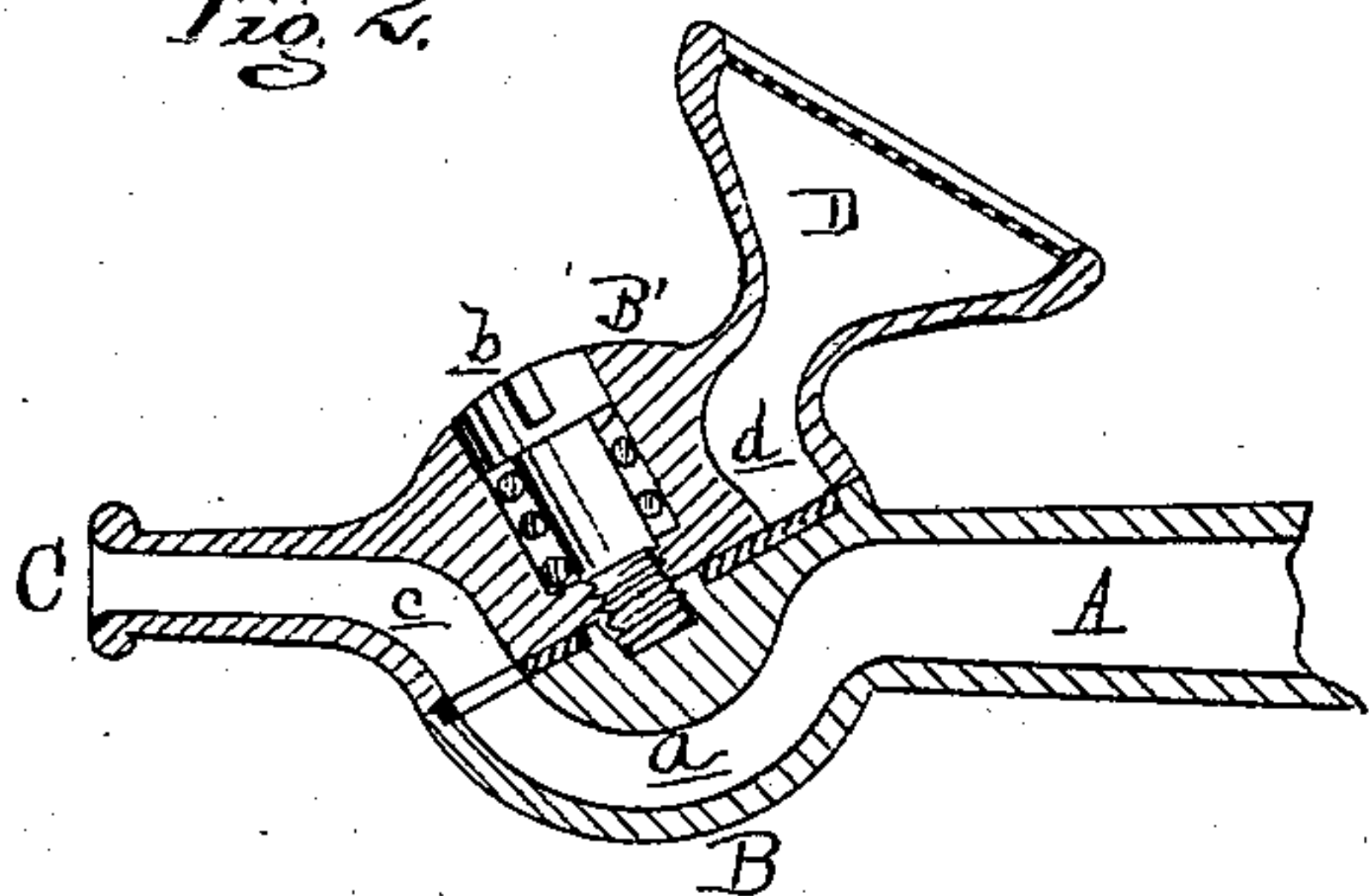


Fig. 3.

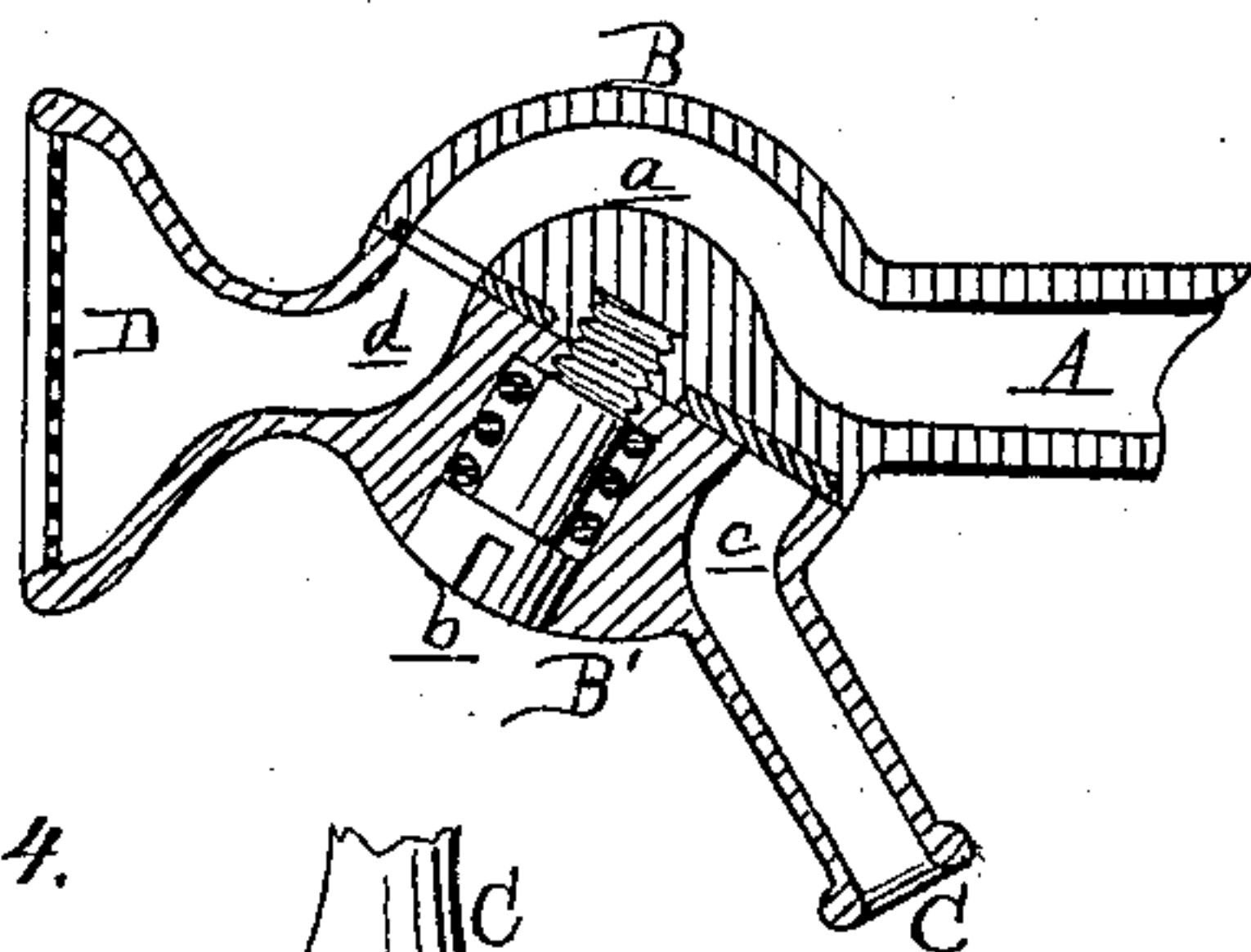
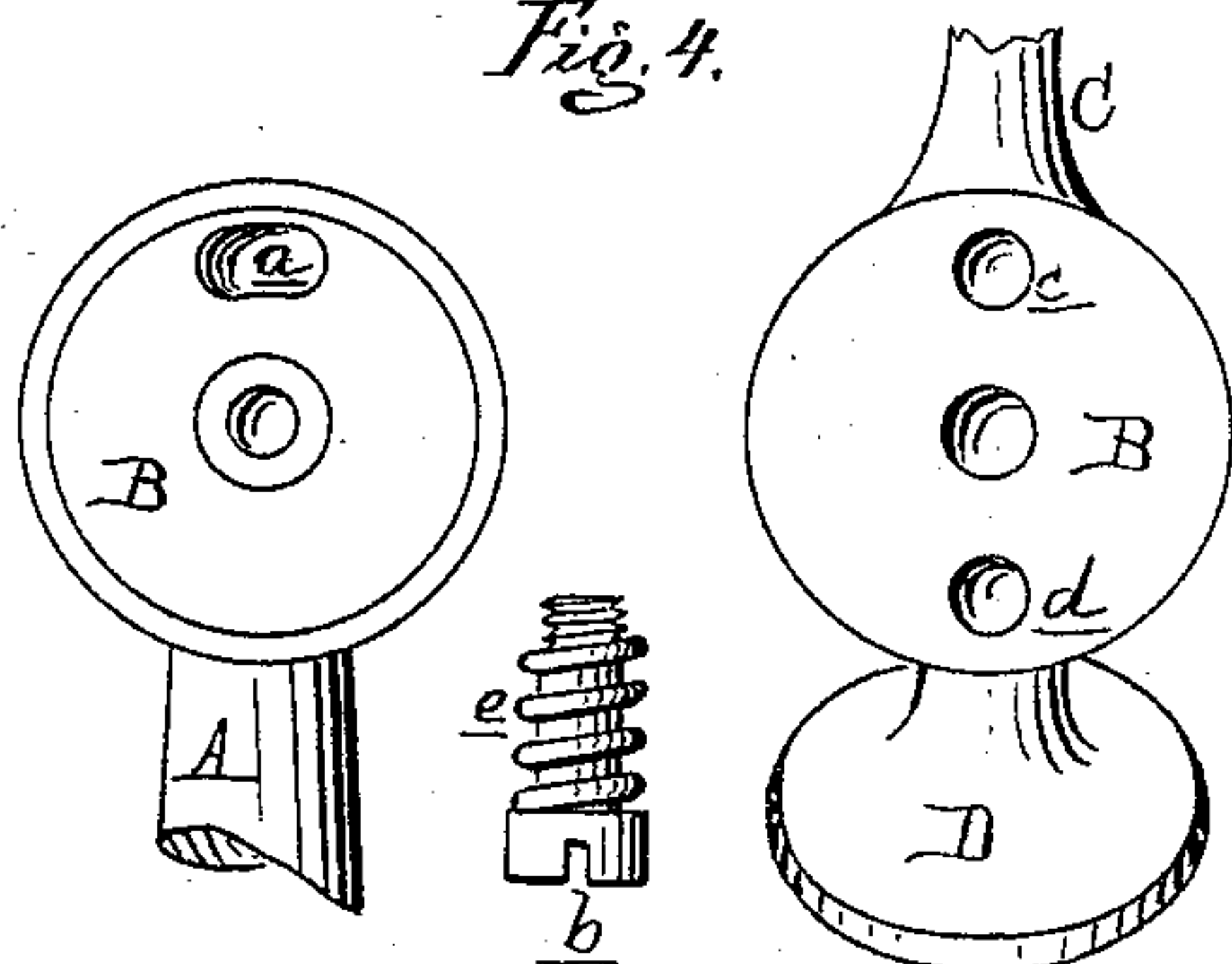


Fig. 4.



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WILLIAM J. BALDWIN, OF DETROIT, MICHIGAN.

IMPROVEMENT IN HOSE-NOZZLES.

Specification forming part of Letters Patent No. **151,823**, dated June 9, 1874; application filed April 7, 1874.

To all whom it may concern:

Be it known that I, WILLIAM J. BALDWIN, of Detroit, in the county of Wayne and State of Michigan, have invented an Improvement in Combined Hose and Jet Hose-Nozzles, of which the following is a specification:

This invention relates to a hose-nozzle, which can, at will, be caused to project a single jet of water, or to discharge the water in numerous fine jets from a rose, or to shut off the discharge entirely. The invention consists in a conical pipe, terminating in a hemisphere, in which a water-way is cored, the section of the sphere being oblique to the axis of the pipe. The nozzle is a hemisphere, faced to, and pivoted on, that of the pipe by an axle screw-bolt, and has cast with it a jet-nozzle, and opposite it a spray-rose, each having a port cored in the hemisphere, which may be brought coincident with the water-way of the pipe, thus making a continuous channel through the pipe and either branch of the nozzle.

Figure 1 is a perspective view. Fig. 2 is a longitudinal section through the pipe and nozzle, when the latter is used to discharge a single stream. Fig. 3 is a similar section, showing the nozzle turned to discharge jets through the rose. Fig. 4 is a perspective view of the faces of the hemispheres, and of the screw and spring separated.

In the drawing, A represents a conical pipe, adapted to screw on the coupling of a hose, terminating in a hemisphere, B, the section of the sphere being taken at an angle of forty-five degrees to the axis of the pipe. B' is the other half of the sphere, having cast in one piece therewith a jet-pipe, C, and a rose, D, diametrically opposite each other, and inclined each way from the axis of the complete sphere, which is a screw, b, which connects the

two halves together. In the hemisphere B a curved water-way, a, is cored. In the hemisphere B' a curved port, c, is cored through the jet-pipe. A similar port, d, is cored in it, leading from the face through the rose. The hemisphere B' can be turned so as to bring either port, c or d, opposite the mouth of the water-way d, and allow a single jet or a spray of water to be discharged from the pipe. By turning the ports away from the water-way the water will be shut off from said ports.

The faces of the hemispheres may be ground to a joint, or a leather packing-disk may be let into the face of the hemisphere B.

To keep the faces in contact, a spiral spring, e, is placed on the screw b under its head, and against a shoulder in the bottom of the axle recess in the hemisphere B', to press the latter against the hemisphere B, into which the screw is tapped.

This nozzle is not liable to injury from being thrown down, as a cock or valve would be. If any other special form of jet be required, it, with its port, may be added to the hemisphere B'.

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

The combination of the pipe A and hemisphere B, provided with the water-way a, the hemisphere B', carrying the jet-pipe C and rose D, having the ports c d cored therein, the said hemisphere B' being pivoted to the hemisphere B by the screw b, the several parts being constructed and arranged substantially as and for the purpose set forth.

WM. JAS. BALDWIN.

Witnesses:

H. F. EBERTS,
H. S. SPRAGUE.