

J. H. FOWLER.
Nozzles or Hose-Sprinklers.

No. 153,672.

Patented Aug. 4, 1874.

Fig. 1.

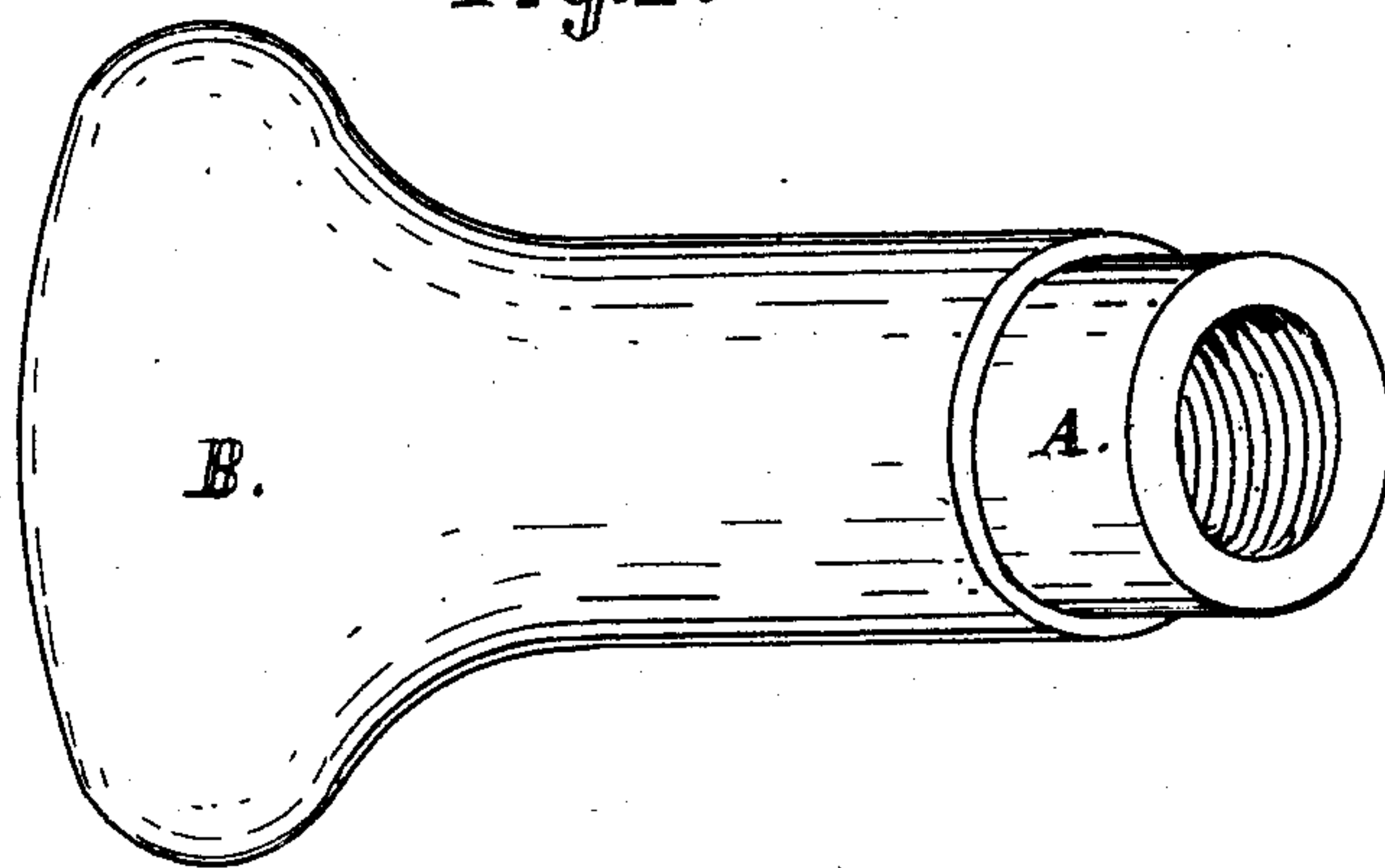
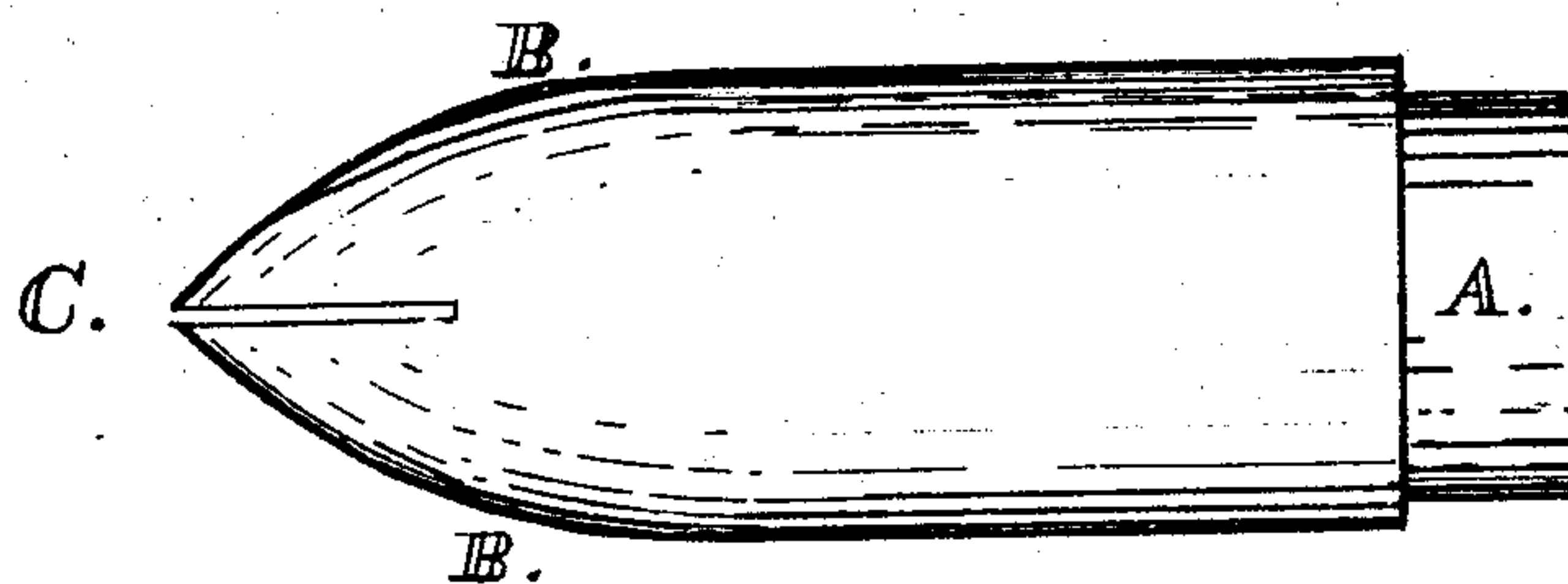


Fig. 2.



Attest.

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JAMES H. FOWLER, OF OAKLAND, CALIFORNIA.

IMPROVEMENT IN NOZZLES OR HOSE-SPRINKLERS.

Specification forming part of Letters Patent No. **153,672**, dated August 4, 1874; application filed June 30, 1874.

To all whom it may concern:

Be it known that I, JAMES H. FOWLER, of Oakland, in the county of Alameda and State of California, have invented an Improvement in Nozzles or Hose-Sprinklers, of which the following is a specification:

The nature of my invention will be understood by reference to the accompanying drawing.

Figure 1 is a perspective view of the side, and Fig. 2 is an edge elevation, showing the construction of the sprinkler or nozzle.

The following is the construction of the same: The base A is cylindrical, and it is flattened toward the top, so as to form the fan-shaped apex with conchoidal sides B. Along the apex is sawed or otherwise formed the slot C. The whole is formed a shell sufficiently thick to resist the water pressure. Within the base a screw is cut to operate as an ordinary hose or nozzle connection. The nozzle may be constructed by swaging and forming into two parts or halves, and soldering together, or it may be cast in one piece, and cored out in the usual manner to form the interior chamber. The aperture for the exit of the water may be either sawed out, as when a thin sheet of water is required, as for sprinkling, or it may be cast in and finished, as when a large stream is required for washing surfaces, or

for putting out fires. The ends of the aperture should then be curved to prevent the sharp corner which would result from the water being passed through a square or angular aperture.

The following is the operation of the nozzle: The thin slot being used, the water issues in a thin sheet, and in a fan-shape, and continuing to diverge horizontally parts into fine spray, distributing equally to the extent of its range, differing in this particular from the rose-sprinkler, which discharges the greater amount in the direction forward of the center.

When used as a nozzle for extinguishing fire, the flat and diverging stream has the advantage of covering a greater surface, while the round stream passes through or across the fire, coming in contact with only a small area or surface.

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

The nozzle composed of the cylindrical base A, with fan-shaped top, having the conchoidal sides B and the slotted or elongated aperture C, constructed and operated in the manner and for the purposes set forth.

JAMES H. FOWLER.

Witnesses:

JNO. L. BROMLEY,
JOHN A. BALL.