

G. WILSON.  
Hose-Nozzles.

No. 150,646.

Patented May 5, 1874.

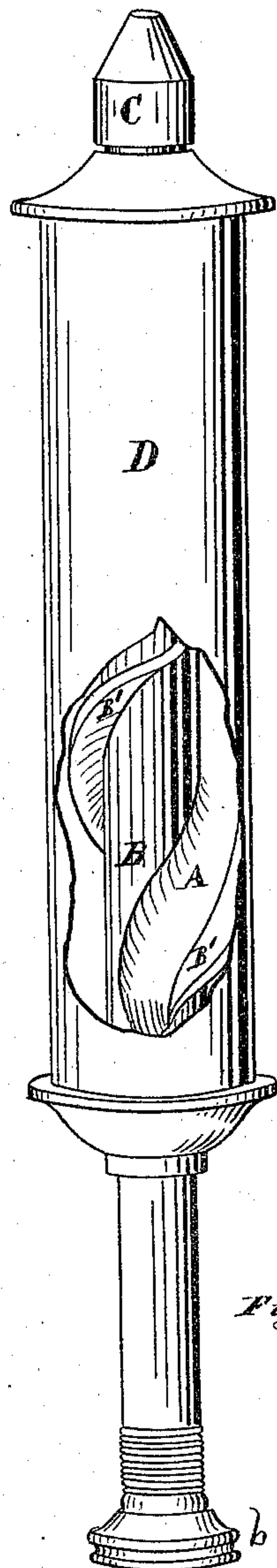


Fig. 1.

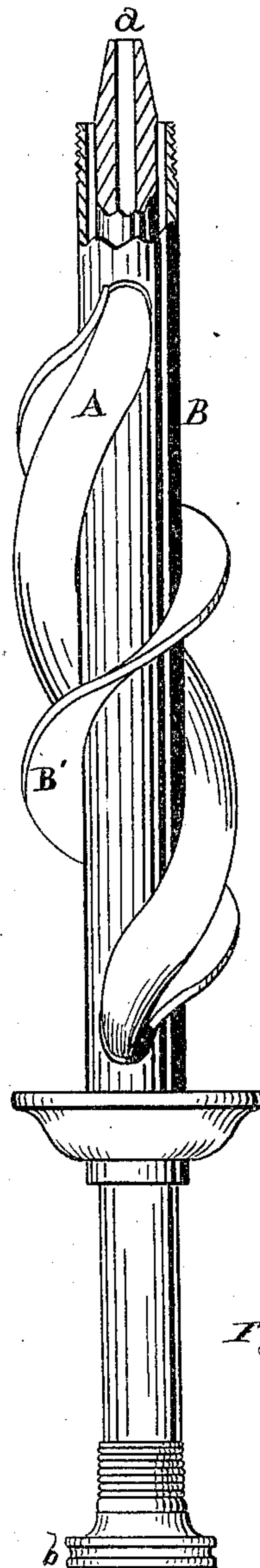


Fig. 2.

ATTEST:

H. P. Cherry.  
H. S. Sprague

INVENTOR:

George Wilson,  
per attorney  
H. S. Sprague

# UNITED STATES PATENT OFFICE.

GEORGE WILSON, OF NEW YORK, N. Y.

## IMPROVEMENT IN HOSE-NOZZLES.

Specification forming part of Letters Patent No. **150,646**, dated May 5, 1874; application filed March 9, 1874.

*To all whom it may concern:*

Be it known that I, GEORGE WILSON, of New York, in the county of New York and State of New York, have invented a new and useful Improvement in Hose-Nozzles; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a sectional perspective view of one form of my improved nozzle. Figure 2 is a sectional plan of the spiral core around which the hose is coiled.

Like letters refer to like parts in both figures.

This invention has for its object to so construct a hose-nozzle for the use of firemen that it will throw a volume of water to a greater distance with the same pressure and keep it more solid than the ordinary conical hose-pipes heretofore used; and to this end it consists in twisting the end of the hose around a spiral core inclosed in a suitable metallic case and terminating in a reduced end; also, in connection with the said core, a compressing-sleeve, threaded on its outer end for contracting the extremity of the flexible nozzle, as more fully hereinafter set forth.

In the drawing, A represents the end of a hose, preferably of india-rubber, contracted at the extremity *a* to form a nozzle, its other end being provided with a coupling, *b*, for coup-

ling it to the leading hose. B is a core-tube, provided with a spiral, B', for a portion of its length. C is a truncated conical sleeve threaded on the outer end of the core-tube. The hose is led into the rear end of the core-tube, and thence through a lateral opening to its exterior, thence wound about it between the spirals toward the front end, thence into its interior through a lateral opening, and its contracted end terminating just beyond or protruding from the tube. D is a casing, which incloses the spirals, and the hose coiled about the tube. By screwing the sleeve C farther onto the tube the extremity of the flexible nozzle may be compressed, so as to contract its bore to any desired extent.

As it is a well-known fact that a projectile is projected to a greater distance and with greater accuracy when discharged from a rifled gun, it is evident that the same law governs the projection of water.

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

1. The flexible nozzle A, spirally coiled about the core-tube B, substantially as and for the purpose set forth.

2. The compression-sleeve C on the tube B, for compressing the extremity of the flexible nozzle A, substantially as described.

GEORGE WILSON.

Witnesses:

ROBT. S. ORSER,  
MAURICE LEE.