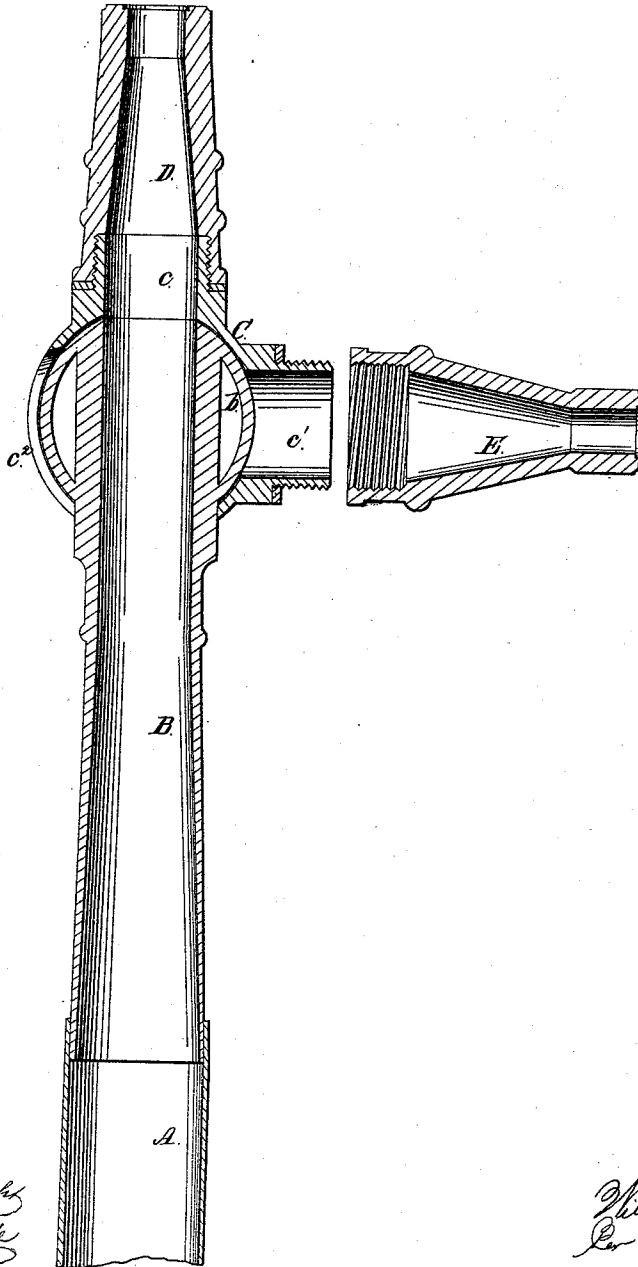


W. JEFFERS.
HOSE NOZZLE.

No. 33,200.

Patented Sept. 3, 1861.



Witnesses.

James M. Smith
J. B. Pendie

Inventor.

William Jeffers
Per [Signature]
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM JEFFERS, OF PAWTUCKET, RHODE ISLAND.

IMPROVEMENT IN HOSE-NOZZLES.

Specification forming part of Letters Patent No. 33,200, dated September 3, 1861.

To all whom it may concern:

Be it known that I, WILLIAM JEFFERS, of Pawtucket, in the county of Providence and State of Rhode Island, have invented a new and Improved Swivel-Nozzle for Fire-Engines, (Steam or Hand,) Force-Pumps, and other Analogous Uses; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making part of this specification, and being an axial section of my improved nozzle.

The object of this invention is to enable the operator to readily replace a nozzle-tip with another of different size while the engine is in full play without being wetted and without wasting water; and the invention consists in the use of a swiveled head constructed with two necks upon either of which a tip may be secured and afterward turned to receive and discharge the stream of water.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents a portion of the hose.

B is the nozzle formed with a cylindrical end *b*, upon which fits a swiveled head C, provided with two necks *c* and *c'*.

D and E represent tips with discharge-apertures of different sizes. The swiveled head is permitted to turn on its axis to the extent of ninety degrees by a slot *c²* corresponding in width with the diameter of the nozzle B. Any number of tips D E may be employed,

and each is threaded to fit corresponding threads on either of the necks *c* and *c'*.

The operation is as follows: If the tip D be in use and it is desired to apply a smaller tip E, the latter is applied to the neck *c'* while in the position shown. By turning the head to the left the newly-applied tip is then brought into position to receive and discharge the stream of water, and the tip D may be removed. If it be again desired to use a tip of a different size, the latter is secured to the neck *c* and afterward brought into play by turning the head to the right. It will thus be seen that water is entirely cut off from either neck to or from which it may be desired to secure or detach a tip. The operator may thus with little trouble be provided with tips adapted to throw streams of a great variety of capacities and may apply the same readily and with no inconvenience.

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

The swiveled head C, provided with separate necks *c* and *c'* and adapted in the manner explained to exclude water from either neck at which it is desired to apply or detach a tip.

The above specification of my improved swivel-nozzle for fire-engines, &c., signed this 27th day of July, 1861.

WM. JEFFERS.

Witnesses:

OCTAVIUS KNIGHT,
L. W. BENDRÉ.