

T. L. PIERCE.
Engine-Hose.

No. 160,226.

Patented Feb. 23, 1875.

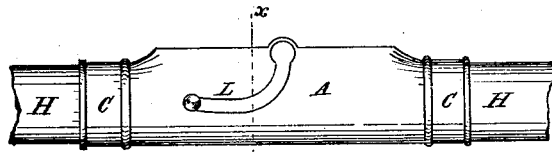


Fig. 1.

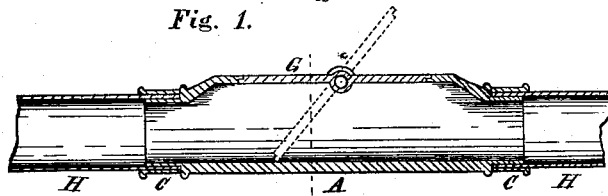


Fig. 2.

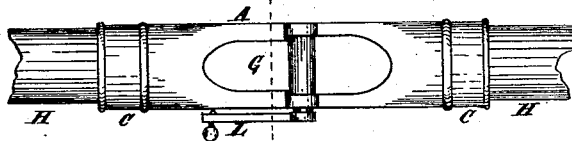


Fig. 3.

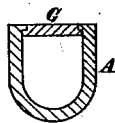


Fig. 4.

Witnesses:
Jacob A. Schuler
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His Attorneys.

UNITED STATES PATENT OFFICE.

TRUMAN L. PIERCE, OF AKRON, OHIO, ASSIGNOR OF ONE-HALF HIS RIGHT
TO JOSEPH M. SEGUR, OF SAME PLACE.

IMPROVEMENT IN ENGINE-HOSE.

Specification forming part of Letters Patent No. **160,226**, dated February 23, 1875; application filed
January 20, 1875.

To all whom it may concern:

Be it known that I, TRUMAN L. PIERCE, of Akron, in the county of Summit and State of Ohio, have invented an Improvement in Engine-Hose, of which the following is a specification:

The object of my invention is to provide a simple and expeditious device for removing the water from any or all parts of fire-engine hose without stopping the engine, when it is desired to do so, either to remove or replace a section or sections of hose, to lighten and render it flexible, so as to enable it to be easily carried up a ladder or into a building, or for any other purpose.

I accomplish this by placing in each section of hose, between the ends thereof, a metallic box of suitable shape, provided with a gate, the whole forming a part of the hose, and so arranged that by a slight movement of the gate the water from each direction can be allowed to escape as long as desired.

My invention will be readily understood by reference to the accompanying drawings, wherein—

Figure 1 is a side view of the box and gate; Fig. 2, a central longitudinal section of the same; Fig. 3, a top view or plan, and Fig. 4 a cross-section at the line *xx*.

The box A is round at the ends and bottom, and the sections of hose H H are attached to it by clamps C C, as ordinary couplings are attached. Between the ends the top of the box and the sides from the center upward are flat, and in the top is an opening having elliptic ends, as shown, in which fits the gate G.

This gate swings upon a spindle passing through raised journals in the upper edges of the box A; the end toward the engine opening inward and the other outward, the edges lapping upon the edges of the opening in the box A, below and above, respectively, and making a water-tight joint therewith by means of thin rubber gaskets.

The end opening inward is made slightly longer than the other, so that it is held in place by the pressure of the water, and when thrown inward, as shown by dotted lines, Fig. 1, completely fills the space in the box A and turns the water upward, while the water beyond escapes on the other side of the gate.

A lever, L, attached to the spindle on which the gate swings serves to open and close the gate when desired, and to hold it closed when no pressure is on the hose, by a small point on its under side entering an indenture in the box A, or other equivalent device.

Having thus described my invention, I claim.

1. In sections of engine-hose, a gate or valve placed between the ends thereof, by which the water in the hose, while under pressure, may be allowed to escape from the hose on either side of the gate, substantially as and for the purpose described.

2. The herein-described box A and gate G, when applied to engine-hose, substantially as and for the purposes hereinbefore set forth.

TRUMAN L. PIERCE.

Witnesses:

JOHN H. CAMPBELL,
WM. T. ALLEN.