

(No Model.)

D. ROACH.
HOSE NOZZLE.

No. 444,712.

Patented Jan. 13, 1891.

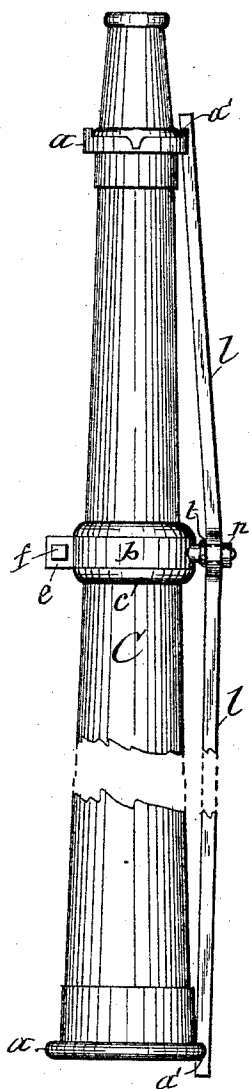


Fig. 1

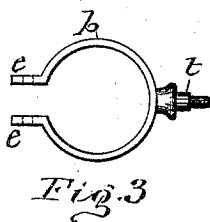


Fig. 3

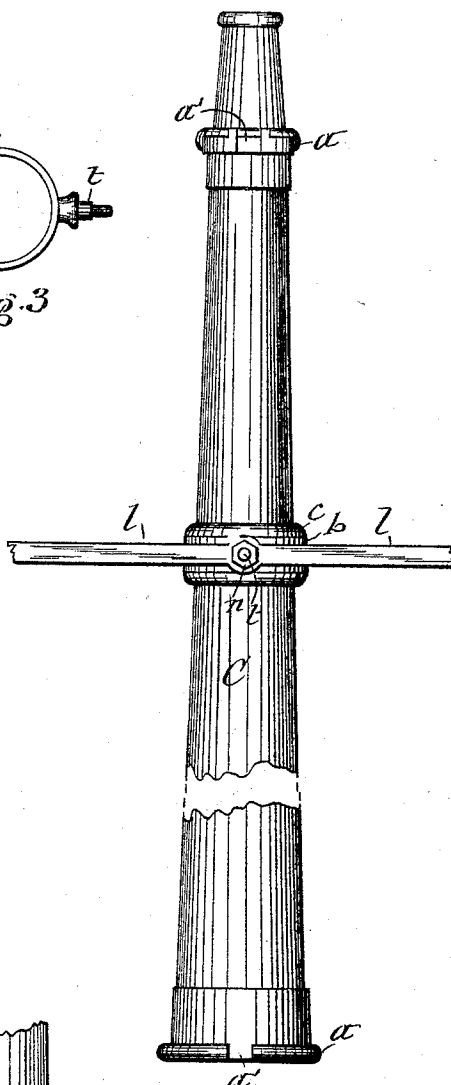


Fig. 2

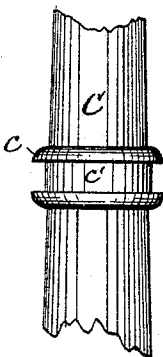


Fig. 4

WITNESSES:

C. L. Rundison
H. M. Beaman

INVENTOR:

Daniel Roach
per D. M. L. & D. M.
his ATTORNEYS.

UNITED STATES PATENT OFFICE.

DANIEL ROACH, OF FULTON, NEW YORK.

HOSE-NOZZLE.

SPECIFICATION forming part of Letters Patent No. 444,712, dated January 13, 1891.

Application filed October 8, 1890. Serial No. 367,427. (No model.)

To all whom it may concern:

Be it known that I, DANIEL ROACH, of Fulton, in the county of Oswego, in the State of New York, have invented new and useful Improvements in Hose-Nozzles, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates, chiefly, to the hose-nozzles of fire-engines. It is a well-known fact that it is very difficult to hold and guide said nozzle when water is forced through the same under high pressure.

The object of this invention is to provide simpler, more convenient, and more effective means for enabling the firemen to more easily hold the nozzle while water is forced through it; and to that end the invention consists, essentially, in the combination, with the nozzle, of levers connected thereto adjustably in the position and adapted to extend laterally therefrom, as hereinafter more fully described, and specifically set forth in the claims.

In the annexed drawings, Figures 1 and 2 are side views taken in planes at right angles to each other of a hose-nozzle embodying my invention and showing the levers in different positions. Fig. 3 is a detached plan view of the metallic band which is provided with the pivot for the levers, and Fig. 4 is a side view of that portion of the nozzle which is provided with the collar for the reception of the aforesaid band.

Similar letters of reference indicate corresponding parts.

C represents the hose-nozzle, which is provided with the usual collars *a a* on its end portions.

ll denote two levers or handles, which I form in one piece of a continuous bar of steel or other suitable material and pivot said bar central of its length and permanently to the side of the nozzle *C* in any suitable manner.

To adapt the said bar to be connected to nozzles already in use, I employ a metallic band *b*, which embraces the nozzle, and is clamped in any suitable manner on the nozzle, and provide said band with a trunnion *t*

and the central portion of the aforesaid bar with an eye, by which I pivot it on the said trunnion, and retain it thereon by means of a nut *n*, applied to the screw-threaded end of the trunnion.

To guard against the slipping of the band *b* toward the smaller end of the nozzle, I rigidly attach to or form integral with the nozzle a collar *c*, which is provided with a circumferential groove *c'* for the reception of the band *b*. This band is flexible to allow it to be slipped into the groove *c* by passing said band lengthwise on the nozzle from the smaller end thereof. The ends of the band are formed with perforated ears *e e*, through which passes a bolt *f*, by which the band is clamped in the groove *c'* of the collar *c*.

In order to allow the pivoted bar or levers *ll* to be held compactly by the side of the nozzle when desired, I bow the central portion of said bar from the side of the nozzle, and provide the collars *a a* with notches *a' a'* or other suitable catches to engage the ends of the pivoted bar when turned into a position parallel with the nozzle, as represented in Fig. 1 of the drawings.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the hose-nozzle, of two levers formed of a continuous bar pivoted at the center of its length to the side of the nozzle, and catches on said nozzle sustaining said levers parallel with the nozzle, as set forth.

2. The combination, with the nozzle, of a metallic band embracing the said nozzle and rigidly secured thereto, and a bar pivoted central of its length to said band, as set forth.

3. The combination, with the nozzle, of a collar rigidly attached to said nozzle and provided with a circumferential groove, a metallic band embracing the grooved portion of said collar and terminating with perforated ears, a bolt passing through said ears and clamping the band on the collar, a trunnion projecting from the band, and a bar pivoted centrally of its length on said trunnion, substantially as described and shown.

4. The combination, with the nozzle, of a
trunnion on the side of said nozzle some distance from the ends thereof, collars on the
end portions of the nozzle having notches in
5 their exteriors, and a bar bowed at its center
from the nozzle and pivoted thereat on the
aforesaid trunnion, substantially as described
and shown.

In testimony whereof I have hereunto
signed my name this 2d day of October, 1890.

DANIEL ROACH. [L. S.]

Witnesses:

GILES S. PIPER,
G. W. HEDDEN.