C. T. HOLLOWAY.

HOSE NOZZLE OR PIPE.

No. 191,964. Patented June 12, 1877.

Fig. 1.

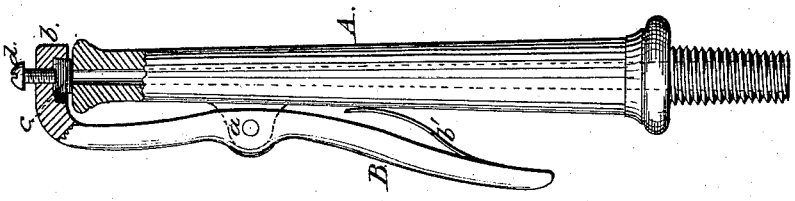


Fig. 2.

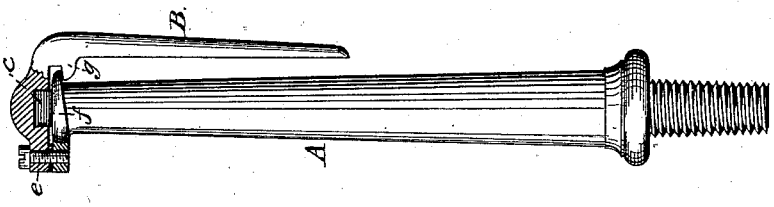


Fig. 3.

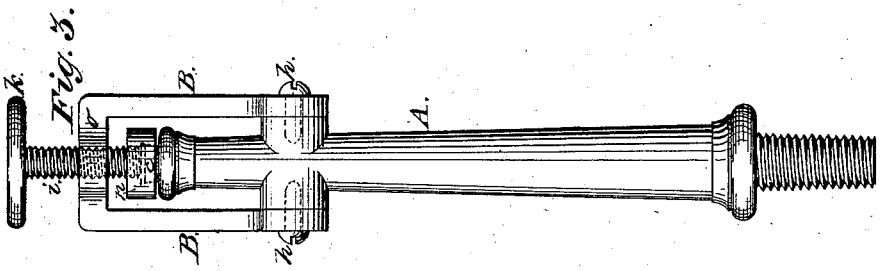


Fig. 4.

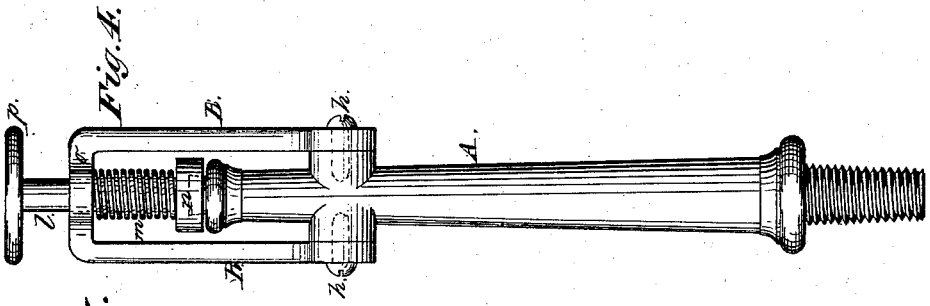
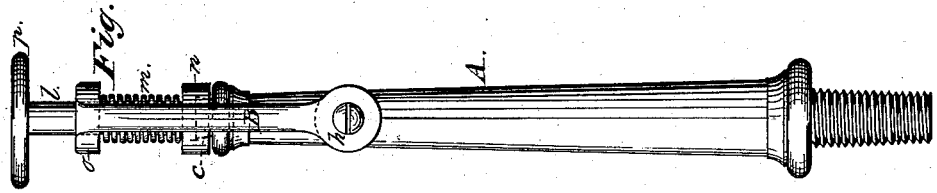


Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES T. HOLLOWAY, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN HOSE NOZZLES OR PIPES.

Specification forming part of Letters Patent No. **191,964**, dated June 12, 1877; application filed April 23, 1877.

To all whom it may concern:

Be it known that I, CHARLES T. HOLLOWAY, of Baltimore city and State of Maryland, have invented certain new and useful Improvements in Hose Nozzles or Pipes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to produce a nozzle or hose-pipe (more especially intended for fire-extinguishers containing carbonic-acid or other gas) that is very simple in its construction and not liable to get out of order.

Hitherto hose-pipes have been provided with an ordinary plug-cock, secured therein, which is liable to corrode or become stuck in its place, so that it cannot be operated, and they are therefore very unreliable.

To obviate these difficulties is the object of my invention; and it consists in providing the hose-pipe for fire-extinguishers, containing carbonic-acid or other similar gases, with a valve, which has its seat on the outer end of the pipe, and, moving at right angles to the axis of the pipe, closes its mouth securely. This valve is formed and operated either by a pivoted bent spring-lever, or a pivoted revolving bent lever working against a cam, or a forked hinged or swinging lever, having an eye in its outer end, through which a screw, with an enlarged end containing the valve-packing, moves; or, instead of the screw, it may be a plain stem, around which is arranged a coiled spring, by which the valve is seated when the lever is in position.

In the accompanying drawing, Figure 1 represents a hose-pipe, partly in section, with a bent pivoted spring-lever. Fig. 2 is a hose-pipe with a revolving lever, provided with a lug to engage with a cam-lip. Fig. 3 is a hose-pipe with a hinged forked lever, having a screw to secure the valve in place. Figs. 4 and 5 are side and end views of a hose-pipe with a hinged or swinging forked lever, with a plain stem and coiled spring to secure the valve to its seat.

In the drawing, A represents an ordinary hose pipe or nozzle, and in Fig. 1 a lug, *a*, is secured thereto, to which the lever B is pivoted. At its upper end this lever is bent at right angles, as shown at *b*, and in its face is inserted a piece of vulcanized rubber, *c*, or other suitable non-corrosive material, which forms the valve, and may be adjusted, in case of wear, by a set-screw, *d*. A spring, *b'*, is secured to the inside of the lever B, by which the valve is always kept closed over the mouth of the nozzle until pressed upon by the hand when it is desired to open it for use.

In Fig. 2 is shown a modification, in which the lever B is pivoted on one side of the hose-pipe, as shown at *e*, so as to revolve horizontally to the axis of the pipe. It is provided with rubber or other suitable material *c*, and is held to its seat by a cam-lip or flange, *f*, with which the lug *g*, on the lever B, engages, and as the lever is moved around on its pivot, it firmly secures the valve in its position by means of said cam and lug on the lever B.

In Fig. 3 is represented a pipe with a forked or swinging lever B, which is pivoted at *h h*, so as to move with its outer connected end freely over the mouth of the pipe. In the cross-piece *o* of the lever B is arranged a screw, *i*, provided with a small hand-wheel, *k*, at one end, while the other end is enlarged to receive the rubber or other suitable packing *c*.

When the lever is brought over the mouth of the pipe it is only necessary to screw the valve down to its seat to firmly close it, and when the screw is loosened the valve can be moved to one side or the other of the pipe.

In Figs. 4 and 5 is shown a modification of Fig. 3, the same form of forked lever B being used and pivoted at *h h*. Instead of the screw *i*, however, the valve-stem *l* is plain, and is provided with a coiled spring, *m*, arranged between the enlarged end *n* of the stem and the cross-piece *o* of the lever B. The stem *l* is also provided with a small wheel or handle, *p*, by which to draw the valve from its seat, and swing it and the lever B to one or the other side of the hose-pipe.

Many other modifications might suggest themselves to any one skilled in the art, but I have only shown a few instances. They may be made of any suitable material, and of any size and configuration desired.

The advantages of my improved hose-pipe are, that it is not liable to get out of order; there is no possibility of corrosion; it is very simple in its construction, can be easily repaired, and can be furnished at a very low and reasonable cost.

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

A hose pipe or nozzle, A, provided with a pivoted or swinging lever and valve, B, with suitable packing *c*, and an adjusting-screw, *i*, or equivalent device, constructed and arranged substantially as shown and described.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

CHAS. T. HOLLOWAY.

Witnesses:
W. S. WILKINSON,
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