

(No Model.)

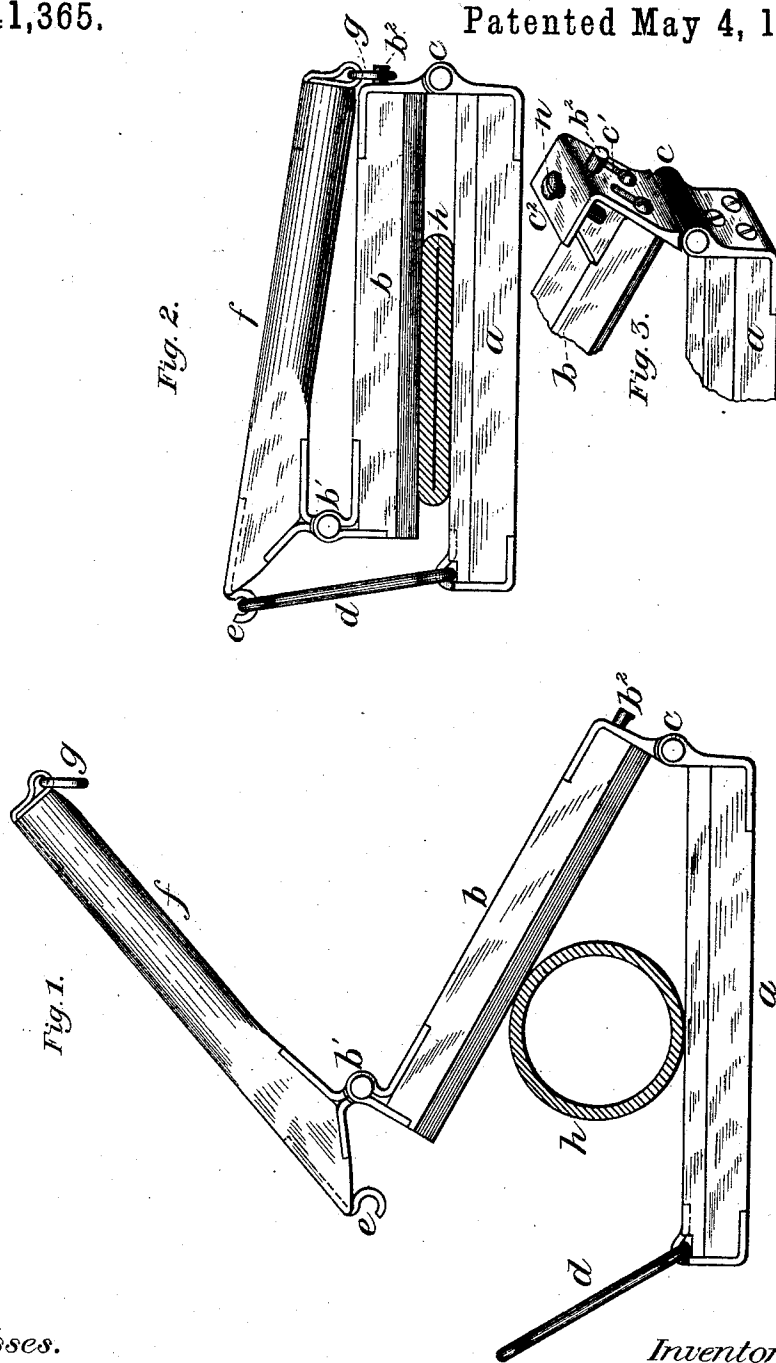
2 Sheets—Sheet 1.

W. J. WILSON.

HOSE CLAMP.

No. 341,365.

Patented May 4, 1886.



Witnesses.

Harry L. Gill
N. B. Corwin

Inventor.

William J. Wilson
by his attys
Bakerwell & Kern

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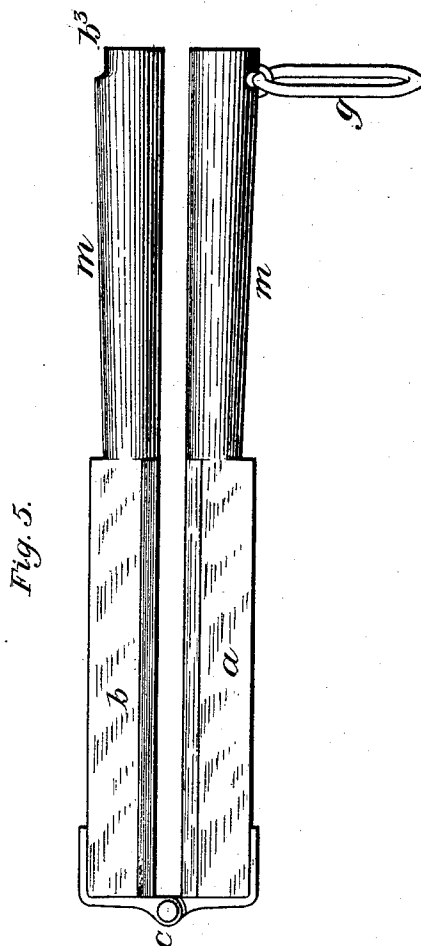
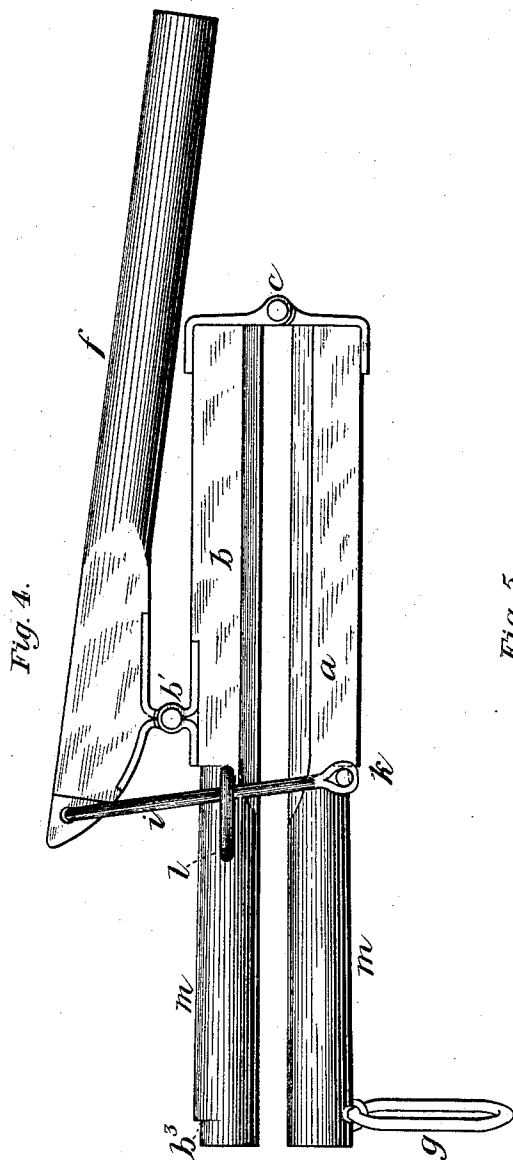
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UNITED STATES PATENT OFFICE.

WILLIAM J. WILSON, OF PITTSBURG, PENNSYLVANIA.

HOSE-CLAMP.

SPECIFICATION forming part of Letters Patent No. 341,365, dated May 4, 1886.

Application filed February 11, 1885. Serial No. 155,561. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. WILSON, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Hose-Clamps; and I do hereby declare the following to be a full, clear, and exact description thereof.

In the use of water-hose at fires much valuable time is lost and frequently great danger is incurred by the bursting of a section of hose. In such case it is usually necessary to shut off the water at the plug or other source of supply in order to be able to remove the damaged section, and as such source is often a considerable distance away much time is necessarily lost in effecting the change. As this loss of time occurs at a critical moment it often results in great damage to property, and sometimes in loss of life. It is not an unusual occurrence that a burst occurs in a section forming part of a line running up a high building, and when this happens the change involves more time and trouble than when the accident occurs on the ground.

My invention consists in an improved clamping and holding device adapted for use with different sizes of hose, by which the water may be shut off back of the damaged section and held closed until such section is replaced by another section, and also by which the line can be held on a building or ladder while the change is being made.

To enable others skilled in the art to make and use my invention, I will now describe it by reference to the accompanying drawings, in which—

Figures 1 and 2 are side views illustrating the construction and operation of one form of my improvement. Fig. 3 is a detail of construction. Figs. 4 and 5 are views of modifications.

Like letters of reference indicate like parts in each.

In Figs. 1 and 2, *a* and *b* indicate two jaws or bars, which are hinged together at *c*. On the outer end of the jaw *a* is a hinged hook or link, *d*, which is designed, when the jaws are brought together, to engage with the hook *e* on the end of the lever *f*. The lever *f* is hinged to the outer end of the jaw *b* at *b'*, and at its rear end is provided with a hinged ring or hook, *g*, which, when the jaws are tightly

closed on a section of hose, as shown in Fig. 2, is intended to hook over the pin *b''* on the rear end of the jaw *b*, so as to hold the jaws in a closed position.

The operation of my improvement is as follows: If a section of hose in use in a line should burst, the jaws *a b* are placed, as shown in Fig. 1, around the next section back, a little in the rear of the coupling, between the two sections, and pressed together until the hook *e* can be engaged with the link *d*. Then force is applied to the lever *f* and it is pressed down, the link *d*, supported on the jaw *a*, serving as a fulcrum until the sides of the hose *h* are tightly compressed together and the water is shut off. It may be secured in this position by putting the ring *g* over the pin *b''*, as shown in Fig. 2.

In the modification shown in Fig. 4 the ends of the jaws *a b* are extended considerably to form handles *m*, and the securing-ring *g* is placed on the outer end of jaw *a* and turns up over the end of the jaw *b*, which may be provided with a notch, *b''*, to receive it. In this instance the lever *f* has its fulcrum in a link or strap, *i*, depending from each side, and taking over pins *k*, one on each side. The links *i* are guided by oblong staples *l*, one on each side of the jaw *b*.

In using this device the hose extends between the jaws, back of the pins *k*. The jaws are closed on it by using their outer ends, *m*, as handles until the eyes or hooks of the links *i* can be put over the pins *k*, and then the pressure of the lever *f* is applied, the link *i* serving as a fulcrum, which is supported by the lower jaw, *a*, as in the case of the link *d* in Fig. 1. The extension of the jaws beyond the end of the lever *f*, forming handles *m*, affords a means of applying pressure on the hose in addition to the lever.

In Fig. 5 the lever *f* is dispensed with, and the pressure is applied solely by means of the handles *m*. This form is useful with light hose and a light pressure of water, but has not nearly the power of the other forms, and therefore is not applicable to large stiff hose and a heavy water-pressure.

The form shown in Figs. 1 and 2 is more portable, and it can be folded up into a smaller compass, and may be carried in the pocket.

In Fig. 3 I show how the jaws are adjusted

at the hinge to receive various sizes of hose. Here the screws which secure the jaw *b* to the hinge-plate *c* pass through slots *c'*, and a set-screw, *n*, works through the upper angle, *c''*, of the plate against the end of the jaw, so that by screwing the set-screw in or out the jaws may spread the desired distance apart at the hinged end.

By the use of this simple and effective device, the hinge being adjusted to suit the diameter of the hose, the water may be shut off at any desired point in a line of hose without trouble or loss of time, so that effective service may be rendered in moments of emergency, when the loss of a few moments may be fatal to life and property.

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

A hose-clamp consisting of a pair of clamping-jaws hinged together at one end by an adjustable hinge, capable of closing together on the hose, and provided with a ring or hook for securing them in a closed position, substantially as and for the purposes described.

In testimony whereof I have hereunto set my hand this 6th day of February, A. D. 1885.

WILLIAM J. WILSON.

Witnesses:

THOMAS B. KERR,
W. B. CORWIN.