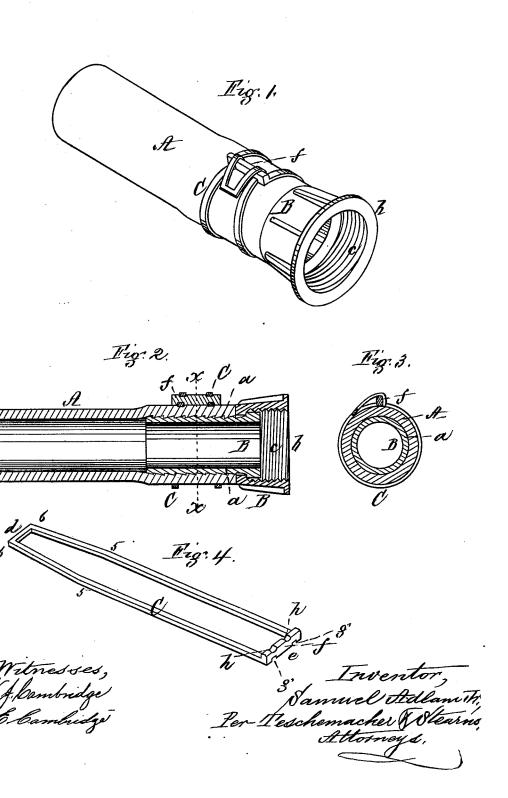
S. ADLAM, Jr.

STRAP OR DEVICE FOR SECURING HOSE TO COUPLINGS.

No. 190,728. Patented May 15, 1877.



United States Patent Office.

SAMUEL ADLAM, JR., OF BOSTON, MASSACHUSETTS, ASSIGNOR TO JOHN A. CALDWELL, OF SAME PLACE.

IMPROVEMENT IN STRAPS OR DEVICES FOR SECURING HOSE TO COUPLINGS.

Specification forming part of Letters Patent No. 190,728, dated May 15, 1877; application filed April 19, 1877.

To all whom it may concern:

Be it known that I, SAMUEL ADLAM, Jr., of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Strap or Device for Securing Hose to Couplings, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which-

Figure 1 is a perspective view representing a section of a hose secured to its coupling by means of my improved strap. Fig. 2 is a longitudinal section through the center of the same. Fig. 3 is a transverse section on the line x x of Fig. 2. Fig. 4 is a perspective view of my strap before its application to the

My invention has for its object to provide a simple, ready, and reliable means of attaching hose to their couplings; and consists in a metallic loop or strap, which is bent around outside of that portion of the hose applied to the coupling, one end of this strap being of such width as to pass through the other end, so that after the strap has been tightened around the hose by a suitable instrument the narrow end may be turned over the wide end and flattened down thereon, by which means the hose is securely clamped in place, as desired.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A represents a section of a rubber hose, one end of which is sprung over the corrugated neck a of the coupling B, the swiveling head b of which is provided on its interior with a screw-thread, c, in the usual manner. Around the outside of the end of the hose thus applied to the corrugated neck a, I bend a metallic loop or strap, C, of the form seen in Fig. 4.

I prefer to make this strap of soft or annealed flattened wire, and taper both of its sides from 5 to 6, so that one end d will be of less width than the other end e, and readily pass through it.

The wide end e is provided with a crossbar, f, of a thickness greater than that of the

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remainder of the strap, in order that it may withstand the strain which is applied thereto by the instrument employed in drawing through the narrow end d, when the strap is

being tightened.

After the narrow end is drawn through, and the strap tightened, the tapering end is turned over and flattened down over the crossbar f, thus locking the strap firmly in place, the under side of the cross-bar f being provided with recesses or notches g, so that the portion of the strap lying therein may be flush, or nearly so, with the inner surface of the cross-bar f, and the entire strap is thus made to fit more snugly in place, and bear throughout its entire length on the hose.

The upper surface of the bar f is also provided with notches h, to receive the turnedover portion of the strap, and thereby cause

it to lie more snugly down thereon.

A metallic strap, constructed in accordance with my invention, may be readily applied to and tightened around the hose by any suitable instrument, and as the yielding or elastic material of the hose is forced by the strap into the corrugations of the coupling, the parts are securely and permanently held together by simply flattening or clinching the narrow or tapering end down over the crossbar of the wide end.

As my within-described strap is made of soft or annealed metal, it may be readily detached from the hose, and be again employed, if desired.

What I claim as my invention, and desire

to secure by Letters Patent, is-

The within-described device for securing hose to couplings, consisting of the metallic looped strap C, provided with a cross-bar, f, constructed as herein shown and described whereby one end may be passed through and bent over the other end, substantially as set

Witness my hand this 17th day of April, A. D. 1877.

SAMUEL ADLAM, JR.

In presence of-N. W. STEARNS, W. J. CAMBRIDGE.