

(No Model.)

J. H. CRISP.
HOSE CLAMP.

No. 464,338.

Patented Dec. 1, 1891.

Fig. 1.

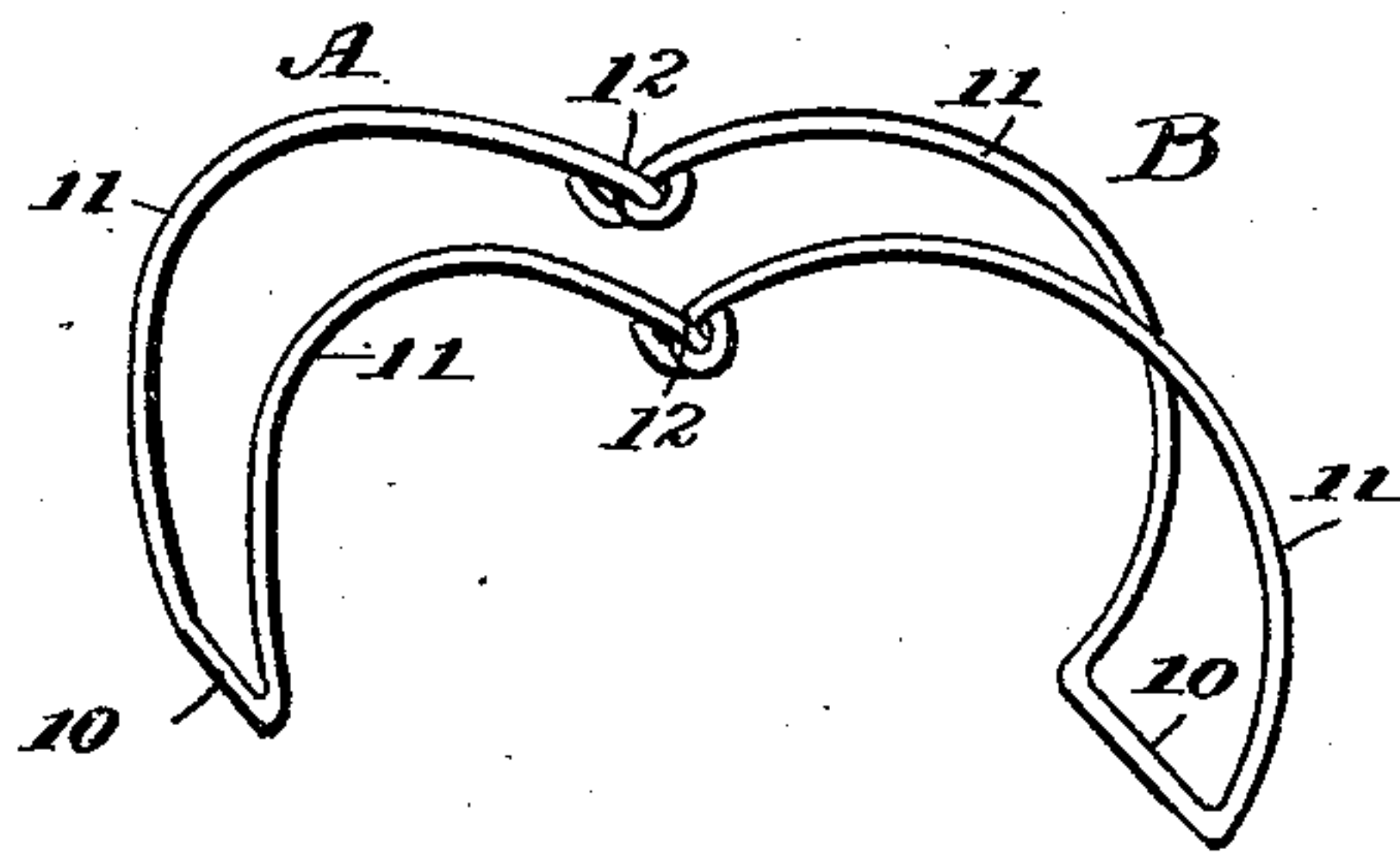


Fig. 2.

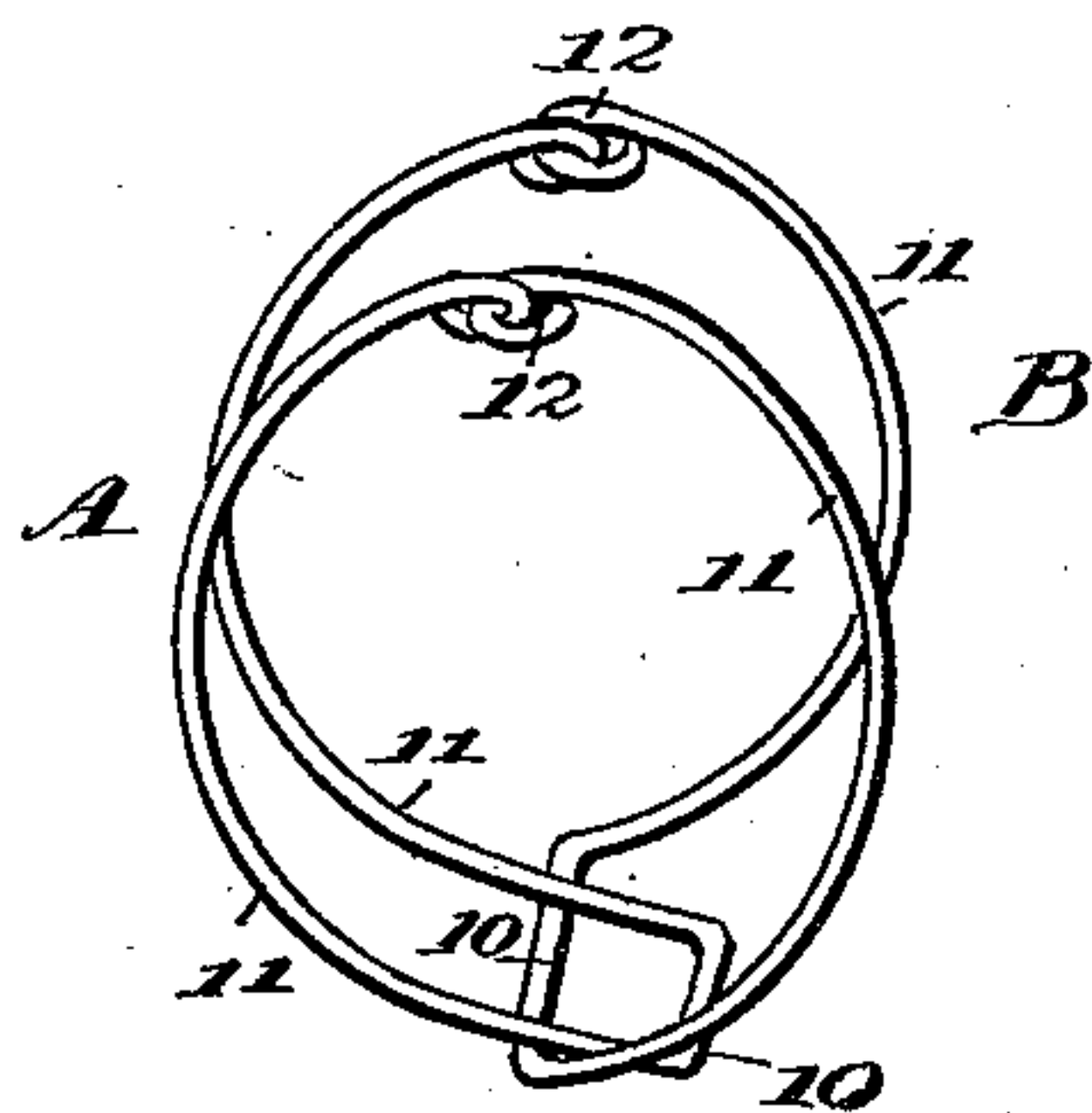


Fig. 3.

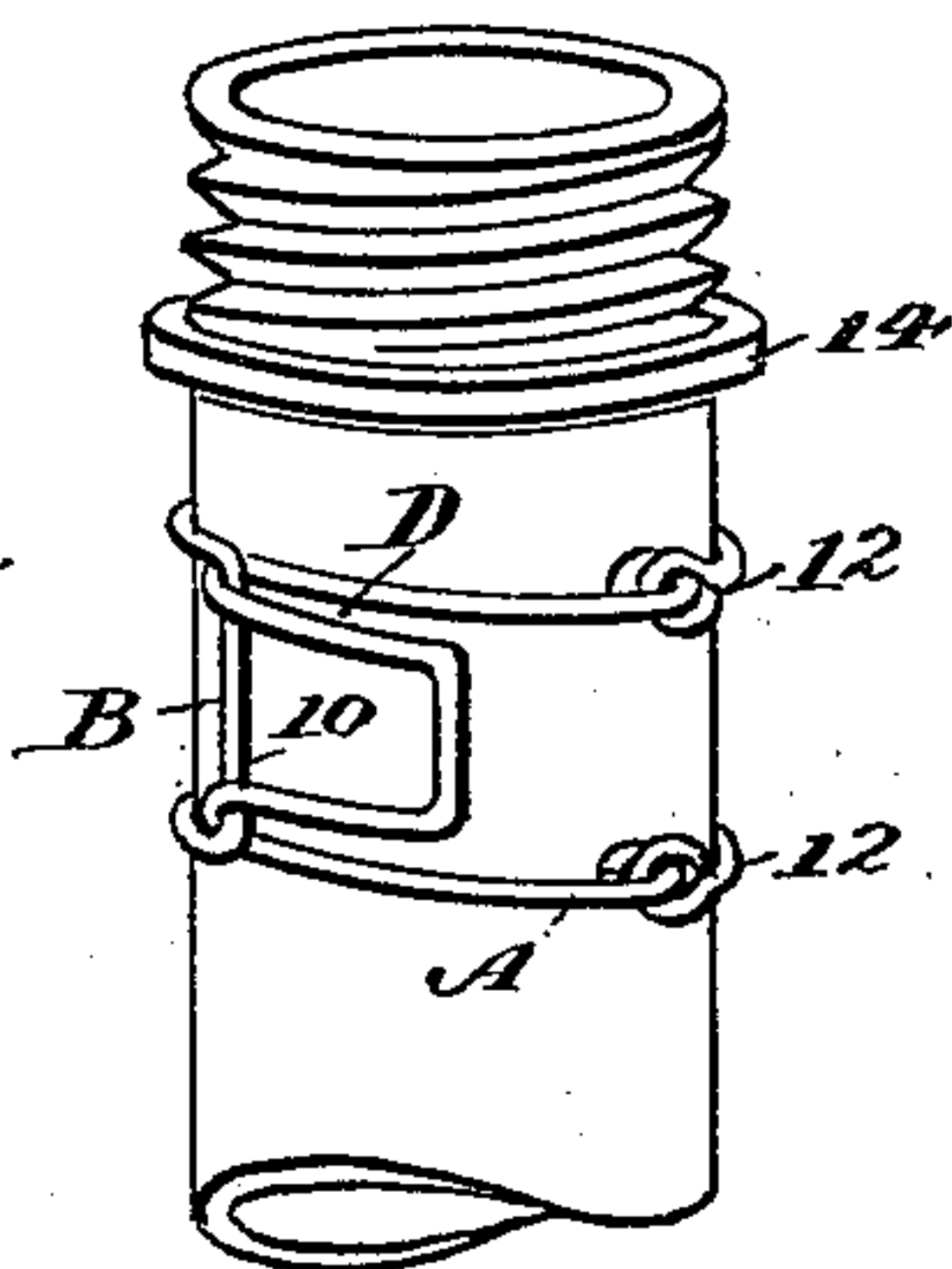
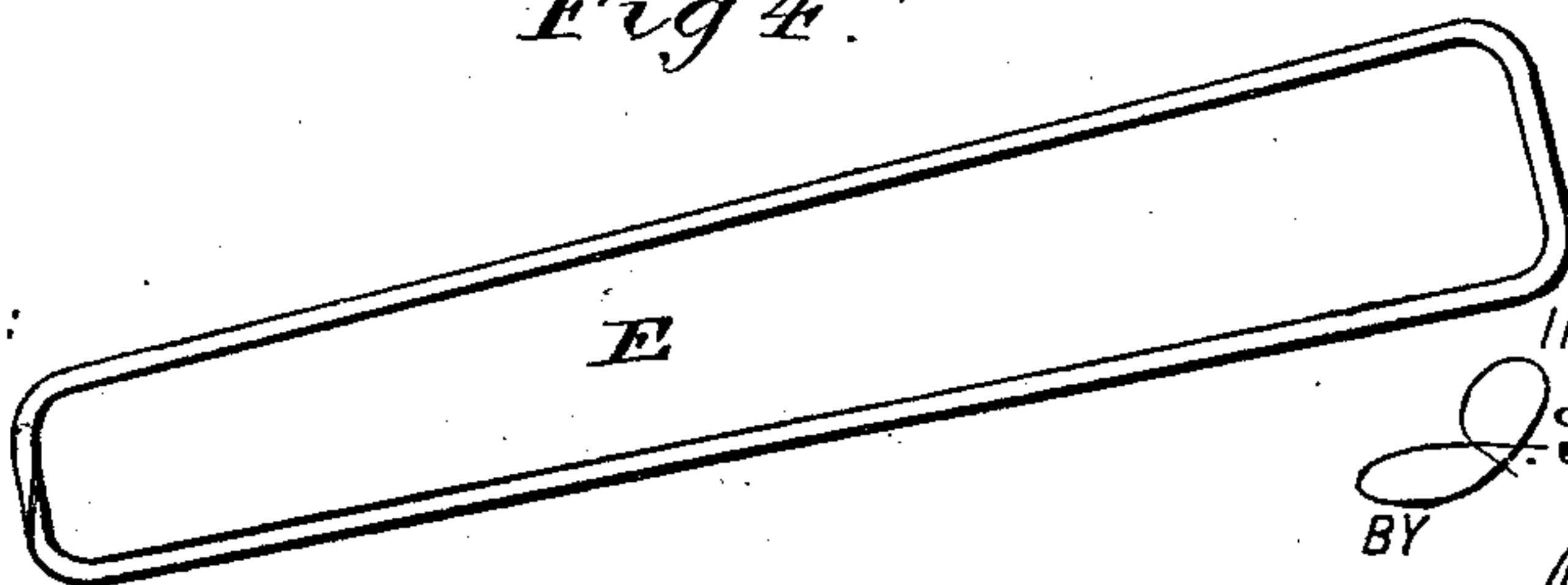


Fig. 4.



WITNESSES:

Paul J. ...
C. Sedgwick

INVENTOR:

J. H. Crisp
BY Munn & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE.

JOHN H. CRISP, OF TRENTON, NEW JERSEY.

HOSE-CLAMP.

SPECIFICATION forming part of Letters Patent No. 464,338, dated December 1, 1891.

Application filed January 5, 1891. Serial No. 376,718. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. CRISP, of Trenton, in the county of Mercer and State of New Jersey, have invented a new and Improved Hose-Clamp, of which the following is a full, clear, and exact description.

My invention relates to an improvement in hose-clamps, and has for its object to provide a simple and durable device capable of being expeditiously and conveniently applied to bind the hose to its coupling; and the invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the clamp open. Fig. 2 is a similar view thereof closed. Fig. 3 is a side elevation of a section of hose, illustrating the application of the clamp; and Fig. 4 is a perspective view of the form of clamp heretofore employed.

The device is made in two semicircular sections A and B, each section consisting of a single piece of wire bent to an essentially U shape, comprising a bow member 10 and two concentric curved side members 11, projecting from the bow member. The sections A and B are preferably of about the same length, but the bow member of the section A is narrower than the corresponding member of the section B. The curved side members 11 of the two sections are connected by a hinged joint 12 of any approved construction.

In operation the hose 13 is slipped over its coupling 14, and the clamp, while in the open position shown in Fig. 1, is made to engage with the outer face of the hose, whereupon the two sections are drawn one in the direction of the other and the bow member of the section A is passed through the section B, and after the section A has been drawn a sufficient distance through the section B to effectually clamp the hose to the coupling the projecting end of the section A is bent downward over the bow member of the section B, as illustrated at D in Fig. 3.

In Fig. 4 I have illustrated the old form of

wire clamp, which consists of a single link E, wider at one end than at the other; and in applying this form of clamp the link is bent to shape around the hose, the smaller end is passed through the larger, and the projecting portion is bent over in the same manner, as shown in Fig. 3.

The old form of clamp possesses many disadvantages, as in the application thereof it is liable to slip upon the hose as one end is being drawn through the other; and, again, it necessitates considerable exertion and time to bend the link, which as an article of commerce is straight, and make it of proper shape; but the most serious objection consists in the fact that the link, being made of one piece of wire, is necessarily soldered, brazed, or otherwise connected at one portion of its length or width, and this creates a spot so weak that when sufficient tension is exerted upon the link to effectually clamp the hose to its coupling the link very often breaks at the joint.

As the improved form of device consists of two curved sections united by a hinge-joint, the clamp may be purchased in proper shape for application, and when one section is passed through the other to clamp the hose properly the hinge buries itself to such an extent in the elastic coating of the hose as to effectually prevent the clamp from slipping while it is being manipulated.

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

1. As an improved article of manufacture, a hose-clamp comprising two semicircular sections hinged together, one section being adapted to be passed through the other section and bent back upon itself, substantially as herein shown and described.

2. A hose-clamp comprising two semicircular sections, essentially U-shaped in general contour, each constructed of a single piece of wire, which sections are connected by a hinged joint, the bow member of one section being wider than the corresponding member of the other section, as and for the purpose specified.

JOHN H. CRISP.

Witnesses:

I. WILBUR CURNS,
GEO. H. YARD.