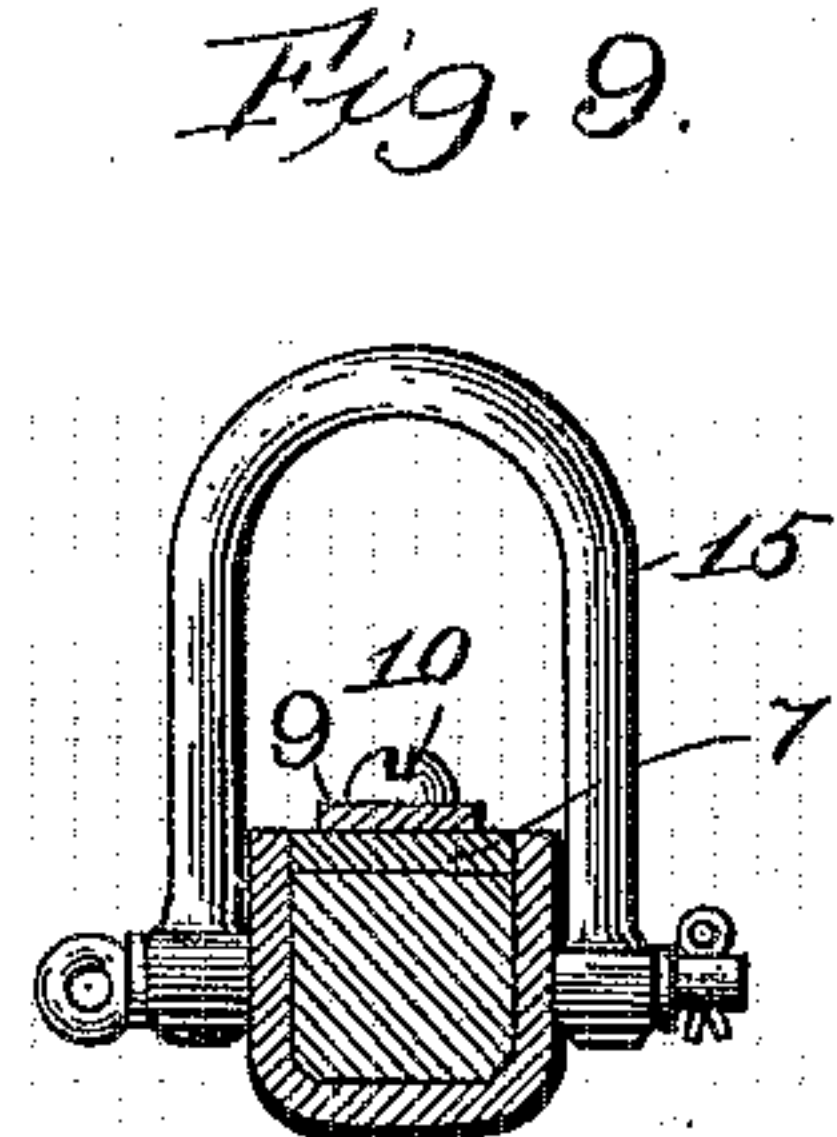
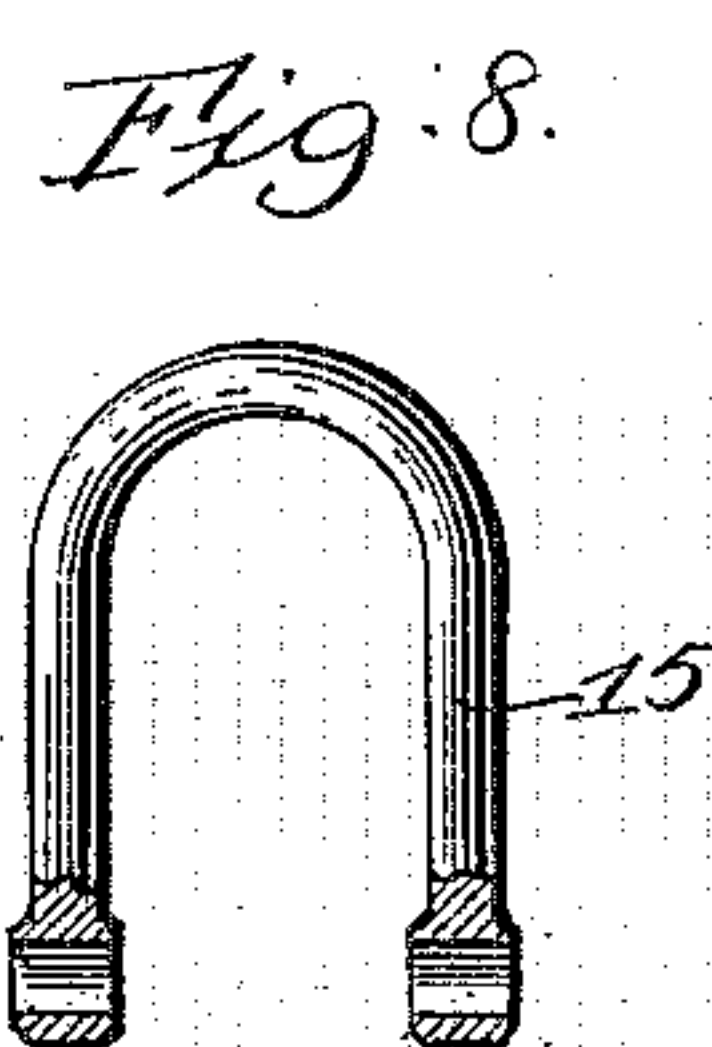
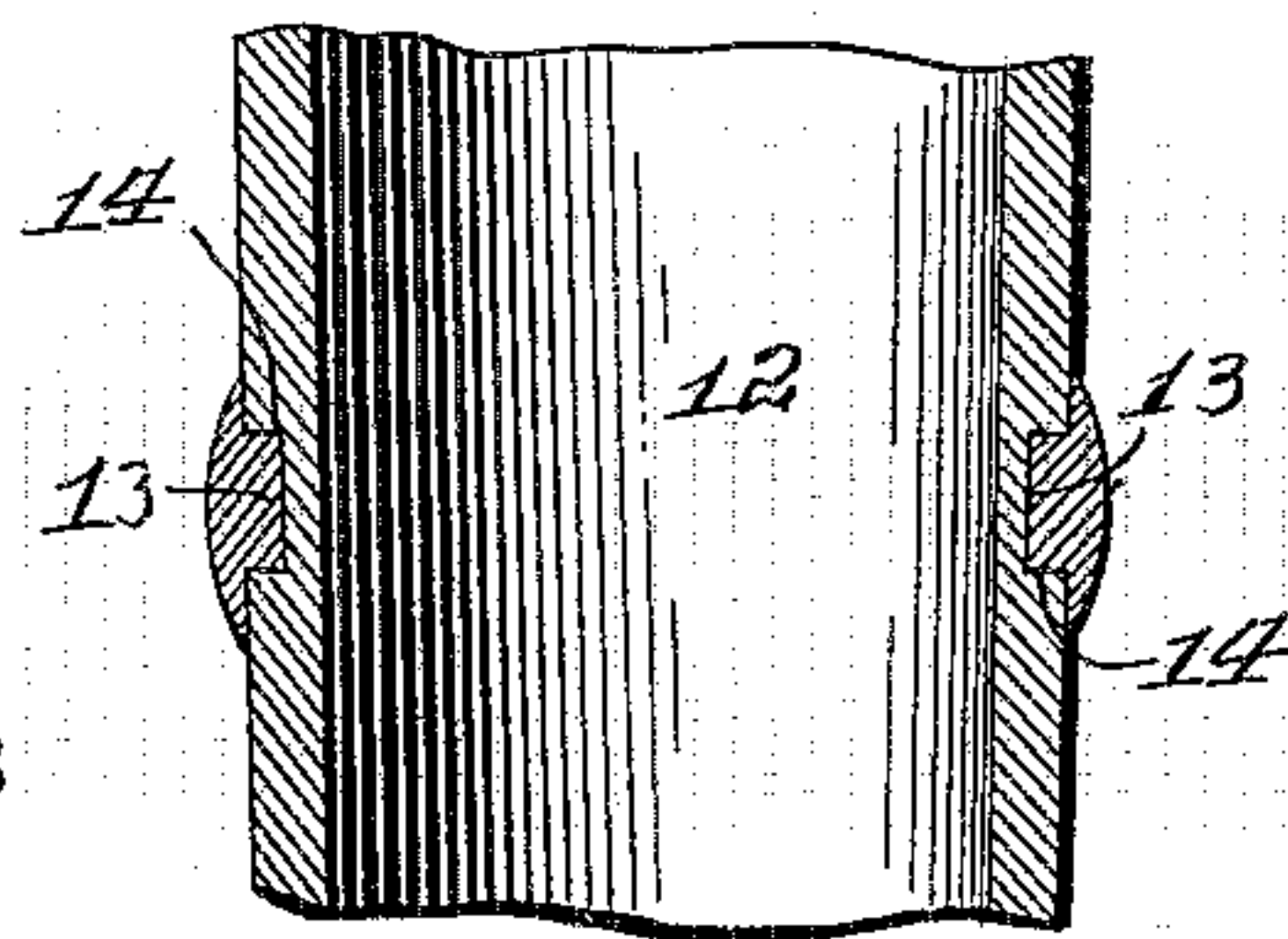
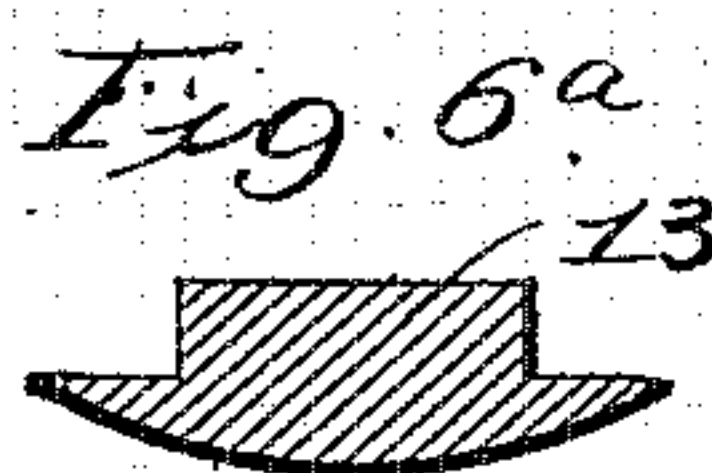
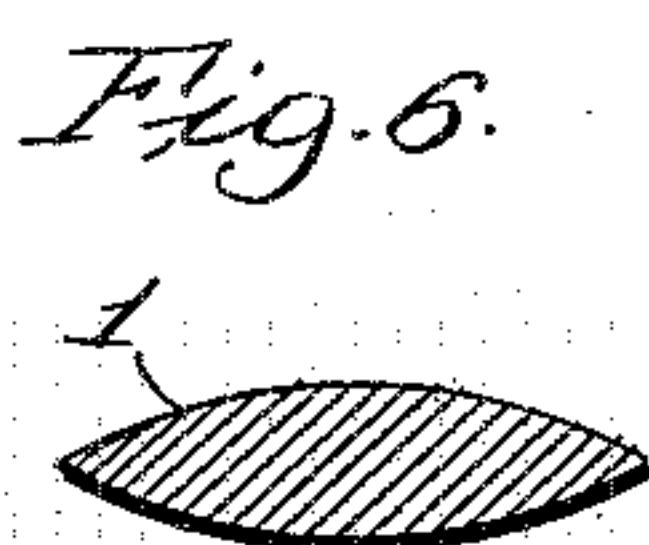
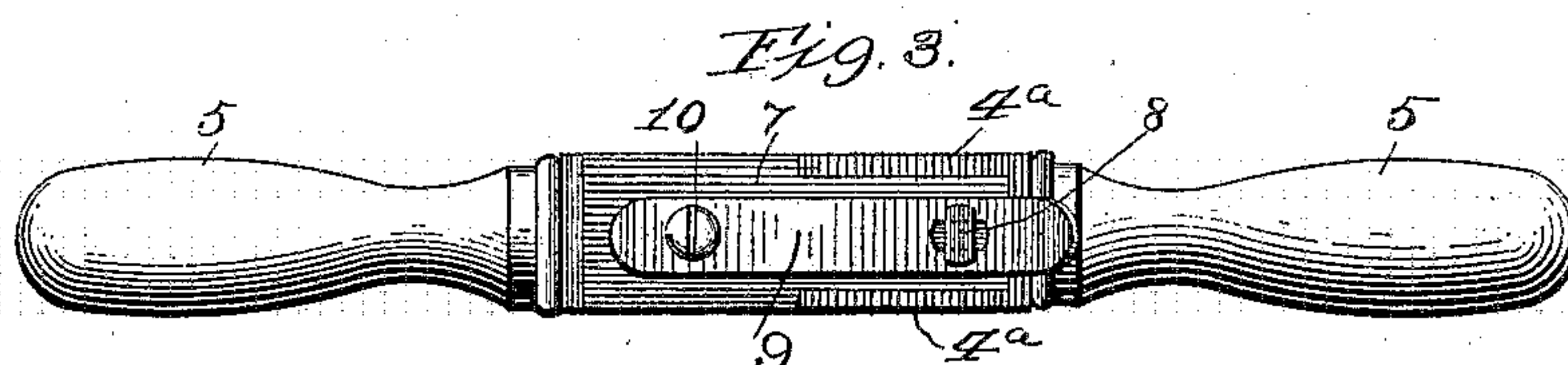
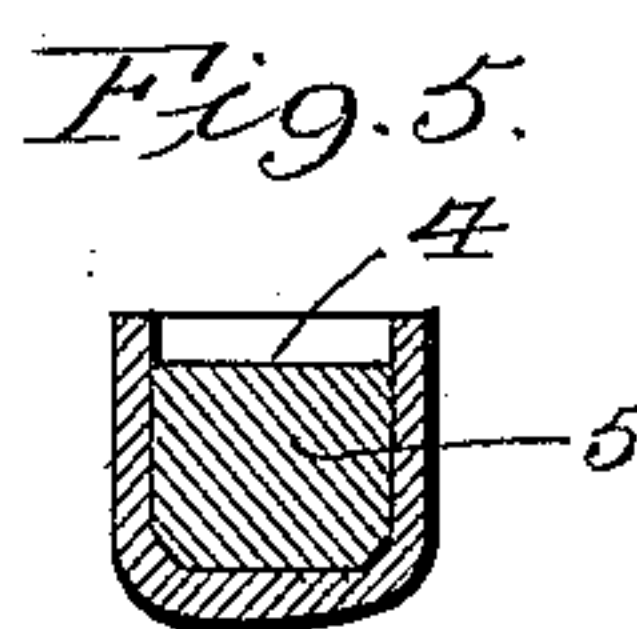
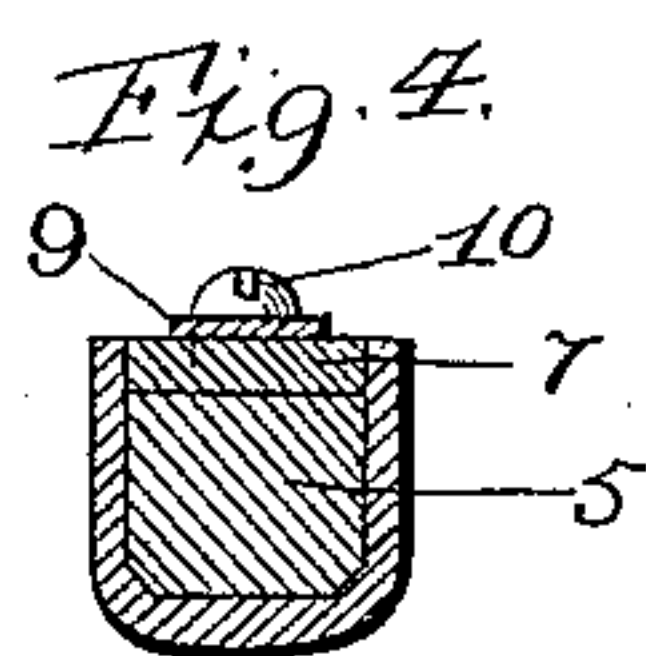
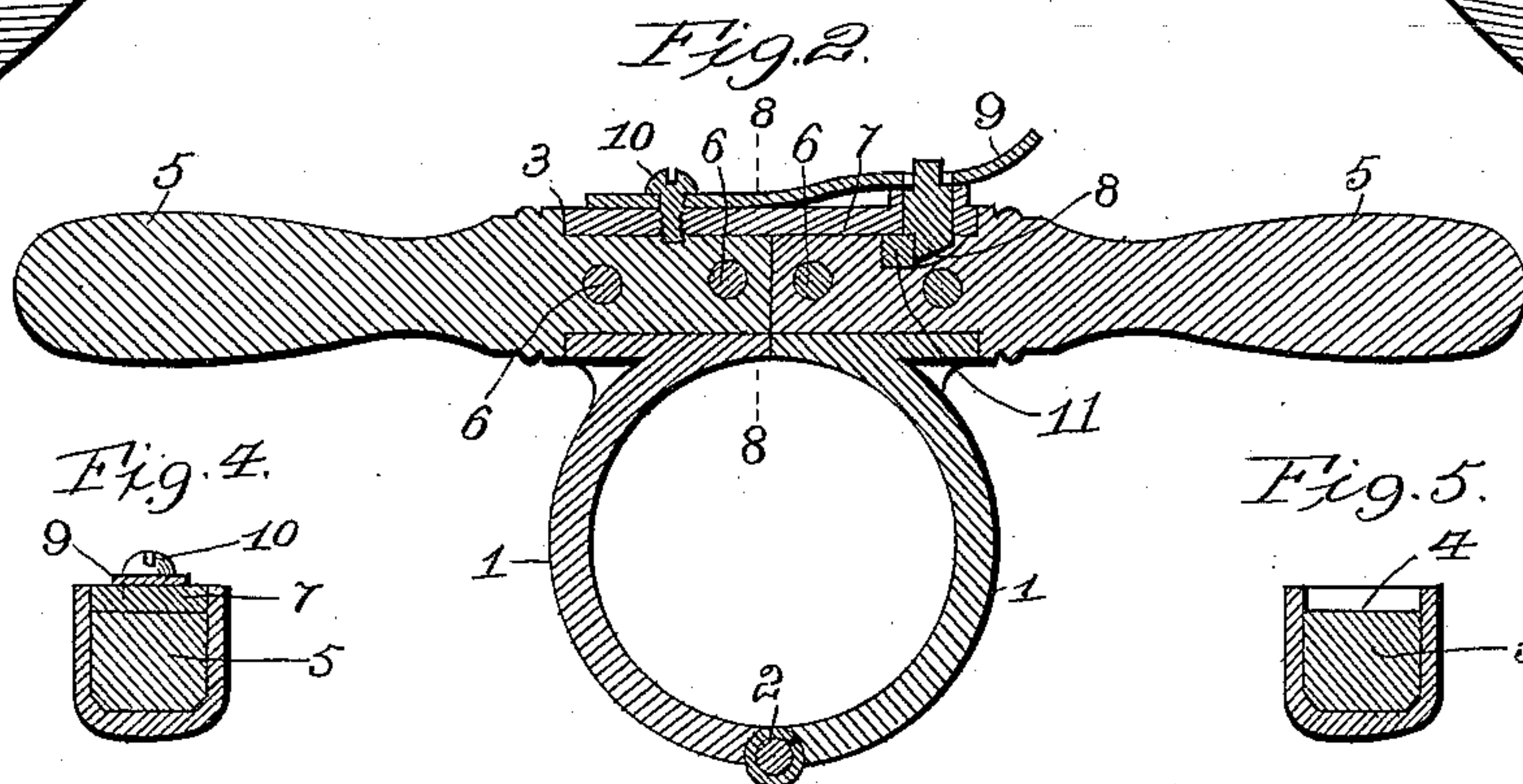
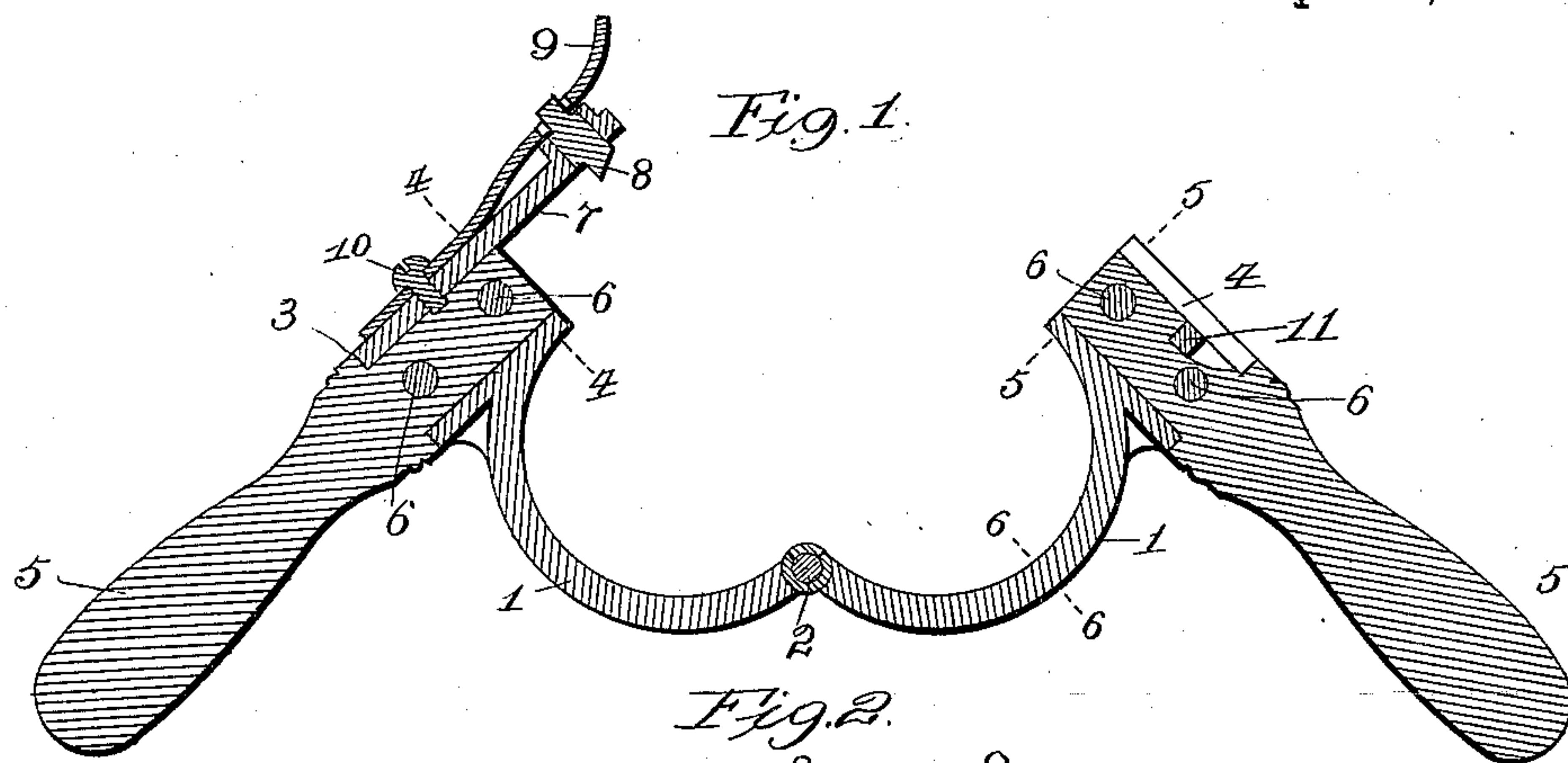


(No Model.)

P. J. DOYLE.
CLAMP FOR HANDLING HYDRAULIC HOSE.

No. 601,639.

Patented Apr. 5, 1898.



Witnesses:
Herbert Bradley
Fred R. Proctor

Inventor
Philip J. Doyle.

By *Knight Bros.*
Attys.

UNITED STATES PATENT OFFICE.

PHILIP J. DOYLE, OF MEMPHIS, TENNESSEE.

CLAMP FOR HANDLING HYDRAULIC HOSE.

SPECIFICATION forming part of Letters Patent No. 601,639, dated April 5, 1898.

Application filed June 11, 1897. Serial No. 640,397. (No model.)

To all whom it may concern:

Be it known that I, PHILIP J. DOYLE, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented a new and useful Clamp for Handling Hydraulic Hose for Fire and other Purposes, of which the following is a specification.

The subject of my invention is a hinged clamp or handle adapted to be instantly snapped around a fire-hose or other hose, whether filled with water or not, so as to firmly grip the same and provide convenient means for handling it, or to be instantly unclamped and changed from one place or hose to another.

The invention is, if preferred, adapted for application to a hose-pipe by suitable formation of the clamp to fit the pipe, as hereinafter described.

My invention further relates to the combination, with a hose-clamp, of a stirrup affording attachment for a hook for raising hose on buildings or upon a ladder.

In the accompanying drawings, Figure 1 is a sectional view of the hose-clamp open and ready for application to the hose or pipe. Fig. 2 is a sectional view of the same in closed position. Fig. 3 is a top view. Fig. 4 is a transverse section at 4 4, Fig. 1. Fig. 5 is a transverse section at 5 5, Fig. 1. Fig. 6 is a detail transverse section at 6 6, Fig. 1, showing the form of the clamp-jaws adapted for application to the hose. Fig. 6^a is a detail transverse section at the same point, showing the form of the jaws when adapted for application to the hose-pipe. Fig. 7 is an elevation of a portion of a hose-pipe grooved for the reception of the clamp, as hereinafter described. Fig. 8 is an elevation, partly in section, of a stirrup adapted for application to the clamp or handle for hoisting hose by tackle. Fig. 9 is a transverse section on the line 8 8, Fig. 2, showing the said hoisting-stirrup in position.

1 1 represent a pair of metal clamp-jaws of semicircular form, hinged together at 2 and formed at their outer ends with sockets 3 4 for the reception of handles 5 5, which may be made of seasoned hickory and secured in the sockets 3 4 by rivets 6. The socket 3 is formed with a projecting arm 7, which may

be cast in one piece therewith and fits between the cheek-plates 4^a of the socket 4, as shown in Fig. 3. Near the outer end of the arm 7 is a socket which receives a sliding ratchet-pawl 8, pressed inward by a spring 9, which is secured to the top of the socket 3 by a screw 10. The socket 4 is further provided with a transverse bar 11, extending between its cheek-plates 4^a at a sufficient distance below the upper edges of the same to permit the projecting arm 7 of the socket 3 to fit between the cheek-plates 4^a, flush with the top thereof, as represented in Fig. 2. The oblique face of the sliding pawl 8 adapts it, when the clamp is closed, to slide easily over the top of the transverse bar 11 and to snap behind the said bar, so as to hold the clamp tightly closed. The clamp may thus be instantaneously applied to any part of the hose, firmly gripping the same and affording great facility for carrying or dragging it, and when desired the pawl 8 may be retracted by a finger being inserted beneath the projecting end of the spring 9, thus instantly releasing the clamp and permitting it to be removed or shifted.

The body of the clamp-jaws 1 1 is formed in transverse section in elliptical shape, as represented in Fig. 6, when the clamp is designed and adapted for application to the body of the hose, or it is formed as shown in Fig. 6^a when the clamp is designed and adapted for application to a hose-pipe 12, as illustrated in Fig. 7. In this case the inner face of the clamp-jaws is provided with a projecting rectangular rib 13, adapted to fit within a circumferential groove in the pipe 12.

If preferred, the handles 5 may be made in one piece with the respective sockets 3 4, each member of the clamp being cast in one piece of metal and the handles 5 cored out for lightness.

In order to adapt the clamp for the ready and instantaneous application of a hook or a block and tackle for raising the hose on a ladder or to a considerable height on a building, I employ when required a stirrup 14, as shown in Figs. 8 and 9, fitting around the socket 3 and secured thereto by one of the rivets 6 or by screws, as preferred.

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

1. A hinged clamp for handling hose, constructed as herein described, with a pair of jaws 1, 1, of semicircular form to fit the hose or pipe, hinged together at 2, 2, and provided
5 with a spring-pawl 8 for securing the jaws in closed position, and with handles 5, 5, for carrying the hose located tangentially to the clamp.

2. The combination of the jaws 1, 1, hinged
10 together at 2, formed at their extremities with sockets 3, 4, the handles 5, 5, secured in said sockets, the arm 7 projecting from the socket 3, the spring-pawl 8 mounted in the said arm and the cross-bar 11 in the socket 4 with which
15 said spring-pawl engages, as and for the purposes described.

3. The combination of the hinged jaws 1, 1, sockets 3, 4, thereon, handles 5, 5 in said sockets, latch device 7, 8, 9, and cross-bar 11 for securing the socket in closed position, as
20 and for the purposes described.

4. The combination of the hinged jaws 1, 1, sockets 3, 4, handles 5, 5, and suitable catch device 7, 8, 9, 11, and the hoisting-stirrup 14 secured to the socket 3 for raising the hose
25 by tackle applied to the clamp, substantially as described.

PHILIP J. DOYLE.

Witnesses:

JAS. V. RYAN,
H. DAILY.