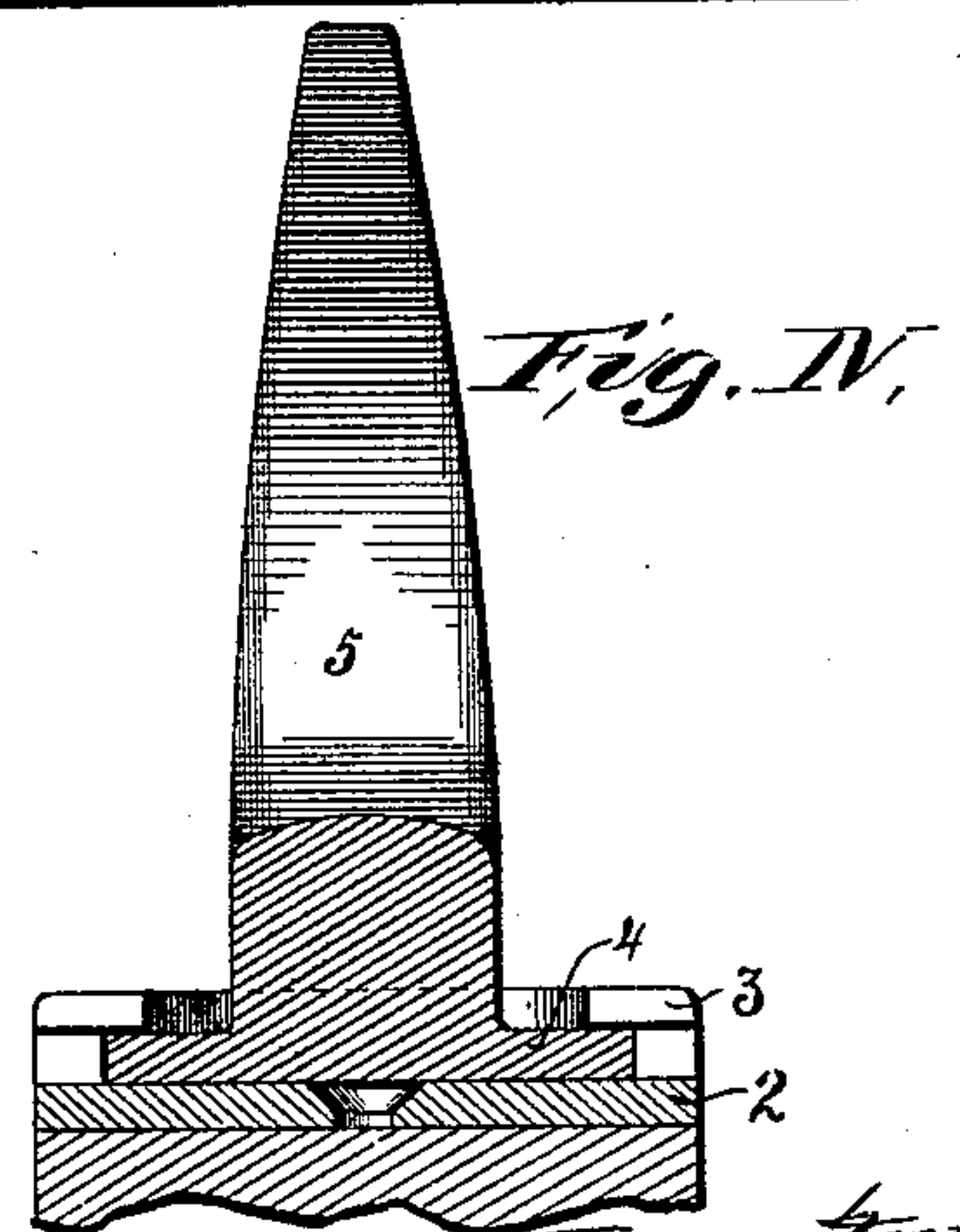
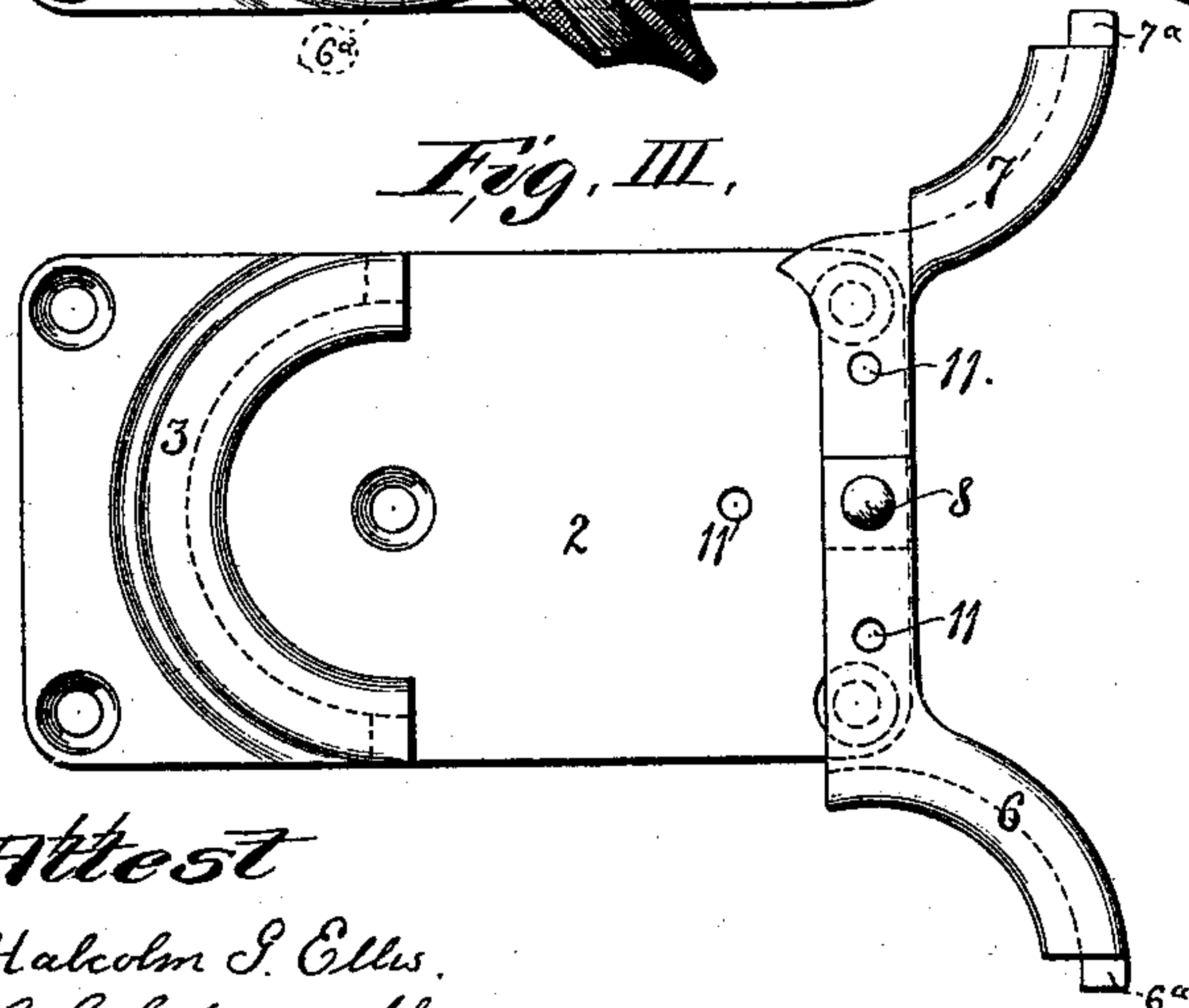
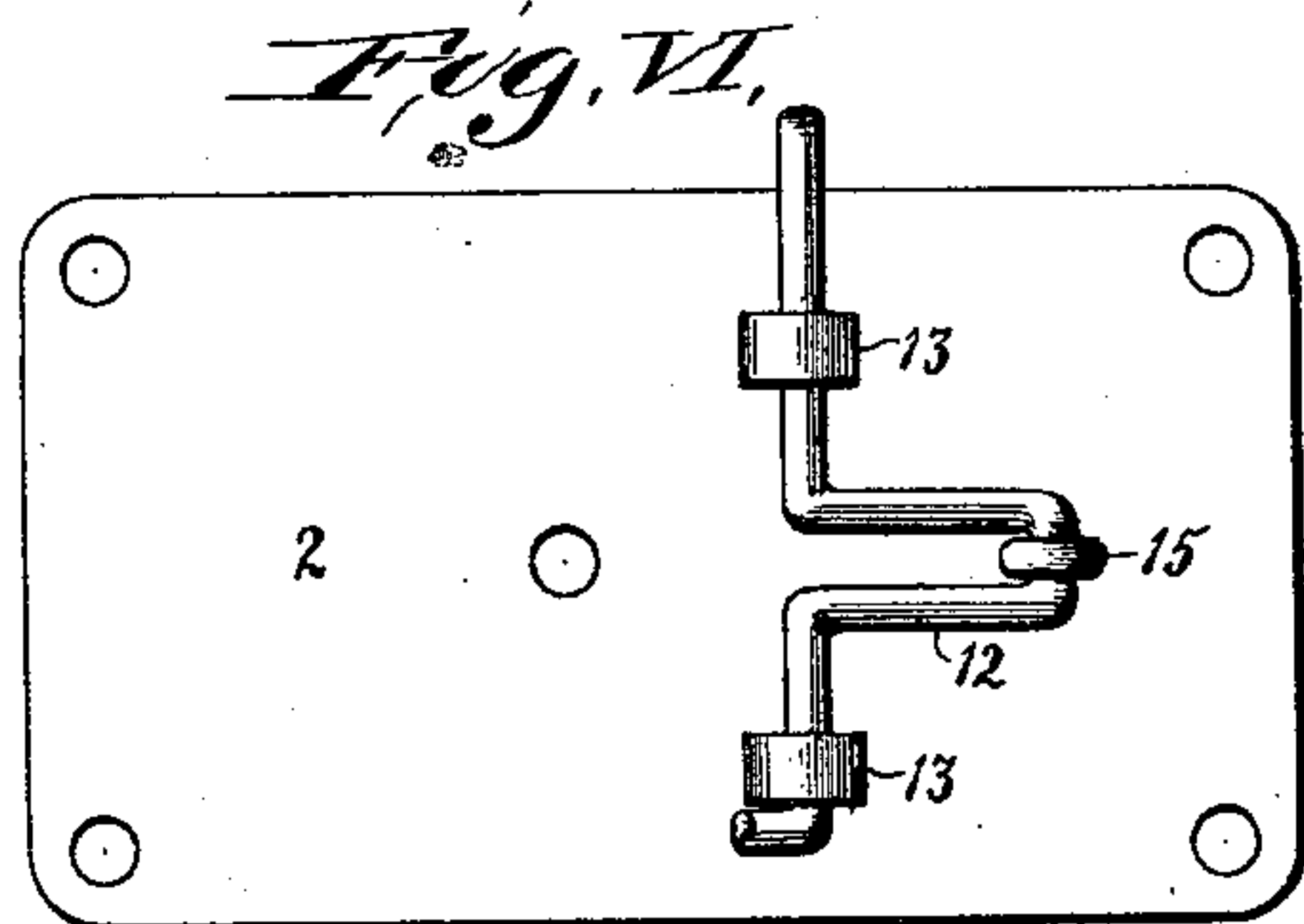
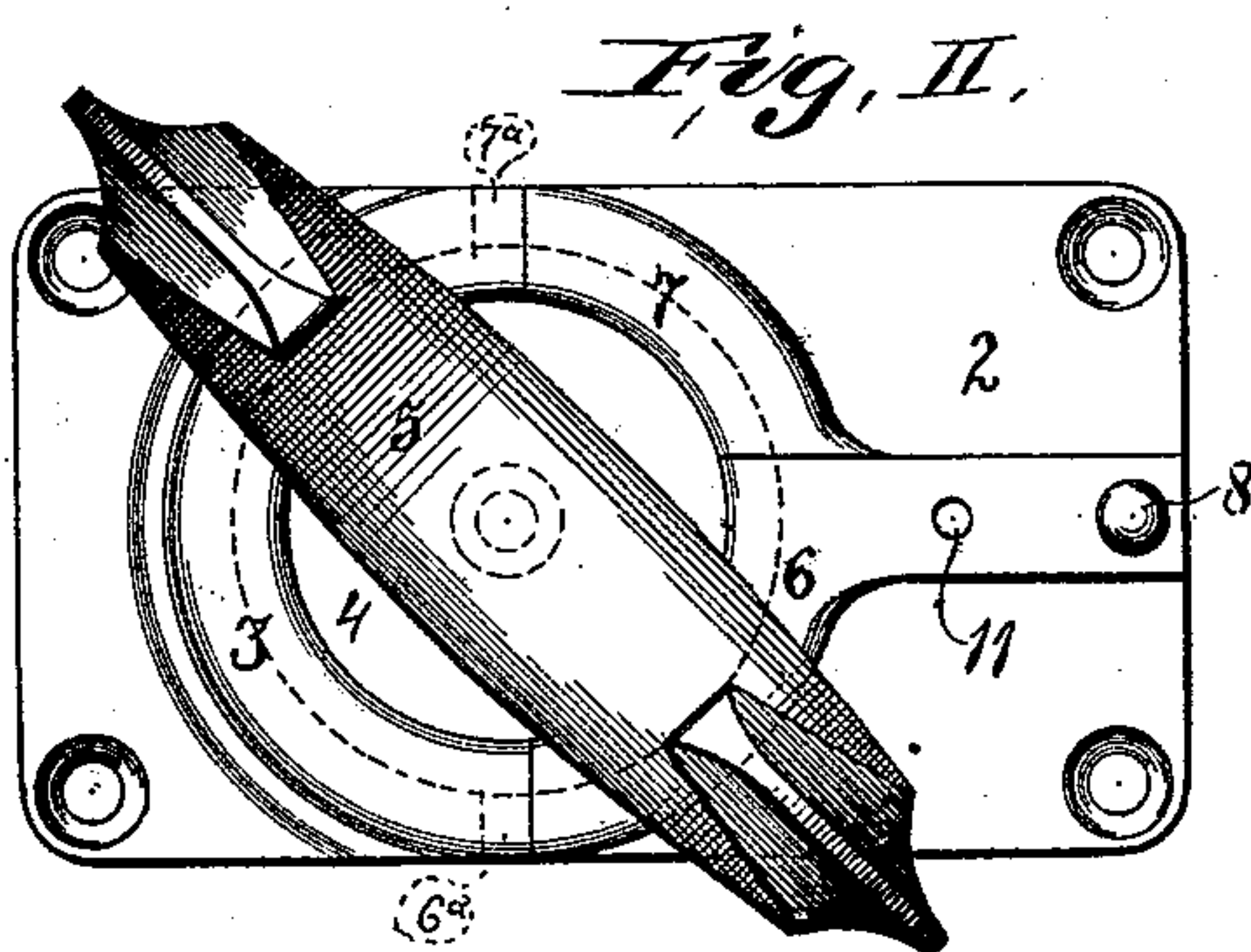
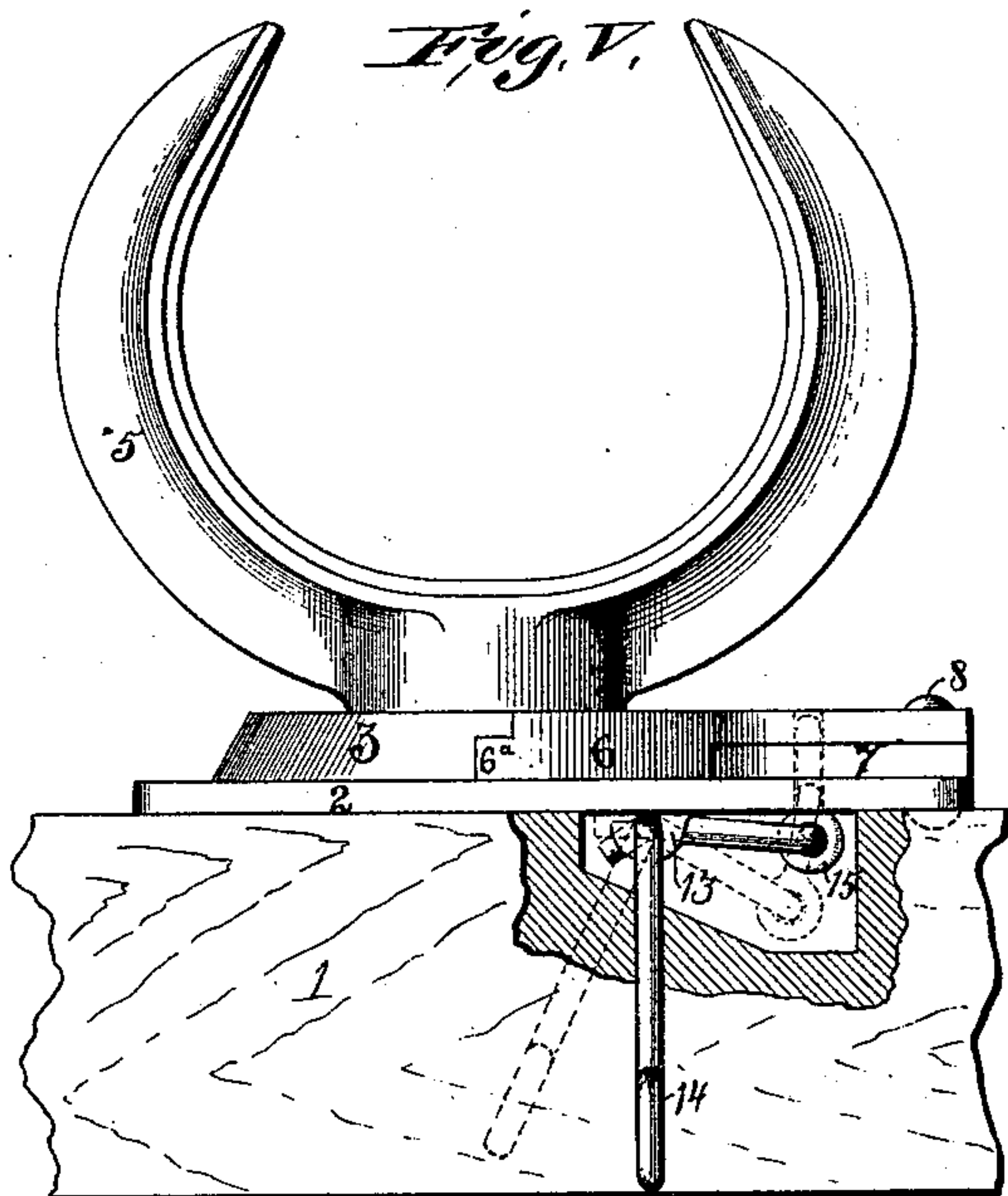
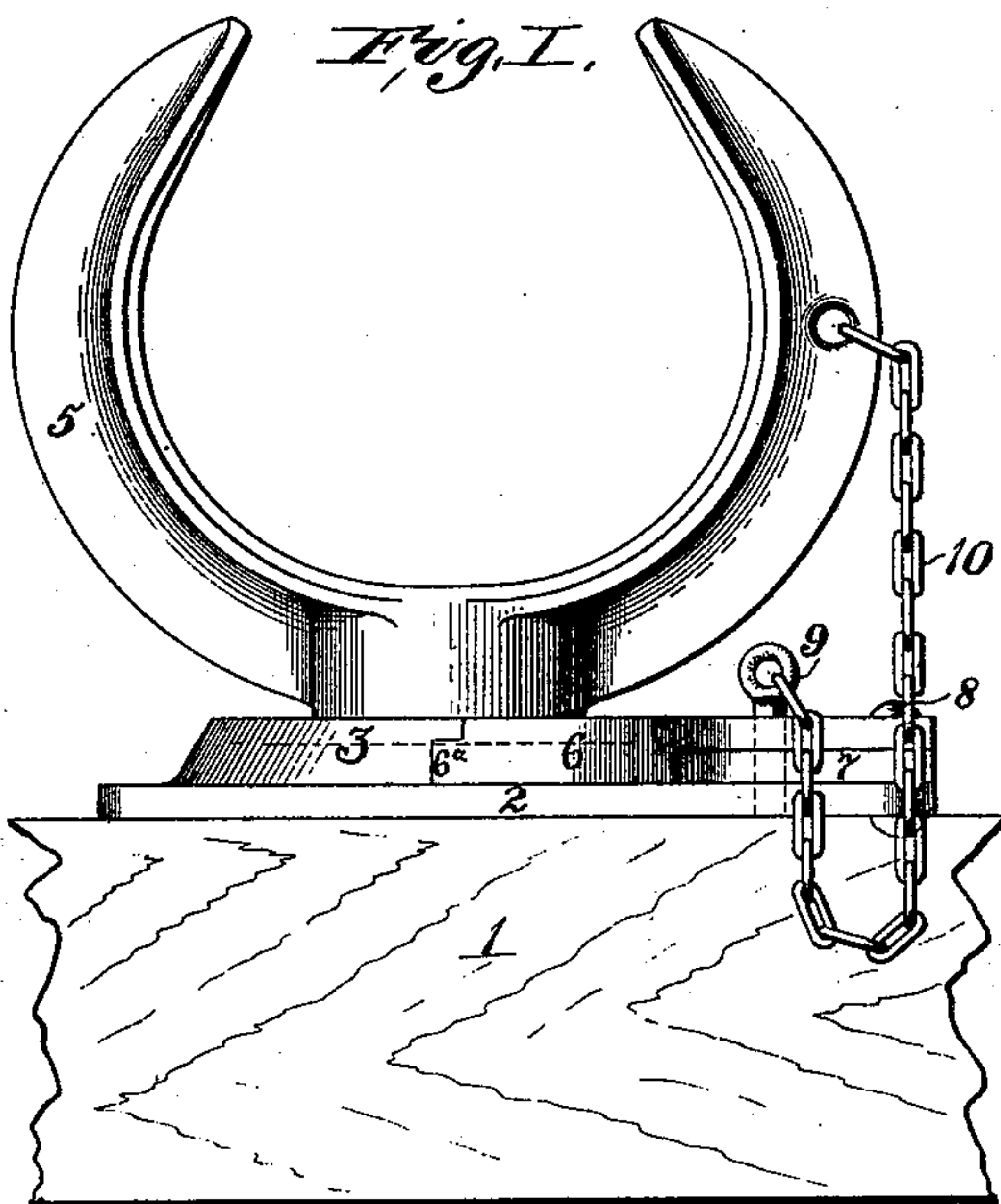


(No Model.)

H. W. STONE.  
ROWLOCK.

No. 532,713.

Patented Jan. 15, 1895.



*Attest*

Harold J. Ellis.  
C. G. Edwards.

*Inventor:*  
Henry W. Stone  
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attys.



# UNITED STATES PATENT OFFICE.

HENRY W. STONE, OF ST. LOUIS, MISSOURI, ASSIGNOR, BY MESNE ASSIGNMENTS, OF ONE-THIRD TO FRED B. STACEY, OF LE CLAIRE, IOWA.

## ROWLOCK.

SPECIFICATION forming part of Letters Patent No. 532,713, dated January 15, 1895.

Application filed May 14, 1894. Serial No. 511,110. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY W. STONE, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Rowlocks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

This invention has for its object to provide a row lock which may be attached to the upper side of the gunwale of a boat without any material weakening of the same, such as is ordinarily caused by the boring of holes or cutting away portions of the wood forming this gunwale.

My invention consists in features of novelty hereinafter fully described and pointed out in the claims.

Figure I is a side view; and Fig. II is a top view, both views showing the lock in the socket. Fig. III is a top view of the socket, with the lock removed. Fig. IV is a vertical section through the center of the fork of the lock, and through the socket. Fig. V is a side view showing in section a modification of the fastening device for the socket; and Fig. VI is a bottom view of the modification shown in Fig. V.

Referring to the drawings:—1 is the gunwale of the boat, on top of which is secured the gunwale plate 2, which forms the socket for the forked row lock. This plate has a semi-circular rim 3, which extends from one side to the other, and is reamed out on a level with the surface of the plate, to allow for the circular flange 4 formed on the base of the fork 5 of the lock.

6 and 7 are clasp arms pivoted to the gunwale plate 2, by a rivet 8. These clasp arms 6 and 7, when closed into the position shown in Fig. II, complete a circle formed by the rim 3 cast on the plate 2, the arms 6 and 7 being provided with small extensions 6<sup>a</sup> and 7<sup>a</sup>, which engage in recesses in the ends of the semi-circular rim 3. These arms are reamed out the same as the rim 3, to surround the flange on the base of the fork or lock 5. When the two arms are closed, as shown in Fig. II, the base of the lock 5 is entirely surrounded, and the lock 5 may be revolved in this bearing without any possibility of being

removed unless the two arms are opened, as is shown in Fig. III. There is no projection from the plate 2 into the base of the lock 5, nor is there any projection from the base of the lock 5 into any recess below the upper surface of the plate 2.

The two arms 6 and 7 are secured in their closed position by a small pin 9, which passes through a hole 11 in each of the arms and also in the plate 2. This pin 9 may be secured by a chain 10 to one side of the forked lock, as is shown in Fig. I, or there may be provided a small crank 12 made of wire or other suitable material, hinged to the bottom of the plate 2 by suitable lugs 13, and provided with a handle 14 extending on the inside of the gunwale. From the center of the crank a small pin 15 is mounted, and the top of the gunwale is recessed out a short distance to allow the necessary vertical play for this pin 15, which in its active position would be as shown in Fig. V, the handle 14 being in a vertical position, the pin 15 extending through the plate 2 and up through both arms 6 and 7.

To open the socket and remove the row lock, it would only be necessary to move the handle 14 into the position indicated in the dotted lines of Fig. V, when the pin 15 would be lowered to such an extent that the arms 6 and 7 might be opened.

I claim as my invention—

1. The combination in a row lock, of the lock 5 having the circular flanged base 4, and the gunwale plate 2 provided with the semi-circular rim 3 and the arms 6 and 7 pivoted to the gunwale plate 2 and adapted to complete the rim partially formed by said semi-circular rim 3, said completed rim being adapted to receive and hold the circular flanged base of the row lock; substantially as described.

2. The combination in a row lock, of the lock 5 having the circular flanged base 4, the gunwale plate 2 provided with the semi-circular rim 3 and the arms 6 and 7 pivoted to the gunwale plate 2, and adapted to complete the rim partially formed by said semi-circular rim 3, said completed rim being adapted to receive and hold the circular base of the row lock, and means for securing the arms 6 and 7 in their closed position; substantially as described.

3. The combination in a row lock, of the lock 5 having the circular flanged base 4, the gunwale plate 2 provided with the semi-circular rim 3 and the arms 6 and 7 pivoted to the gunwale plate 2, and adapted to complete the rim partially formed by said semi-circular rim 3, said completed rim being adapted to receive and hold the circular flanged base

of the row lock, the pin 15 and the small crank 12 mounted on the bottom of the plate 2 for operating the pin 15; substantially as described.

HENRY W. STONE.

In presence of—

A. M. EBERSOLE,

C. G. EDWARDS.