

(No Model.)

S. G. HOWE.
Mallet.

No. 235,244.

Patented Dec. 7, 1880.

FIG. 1.

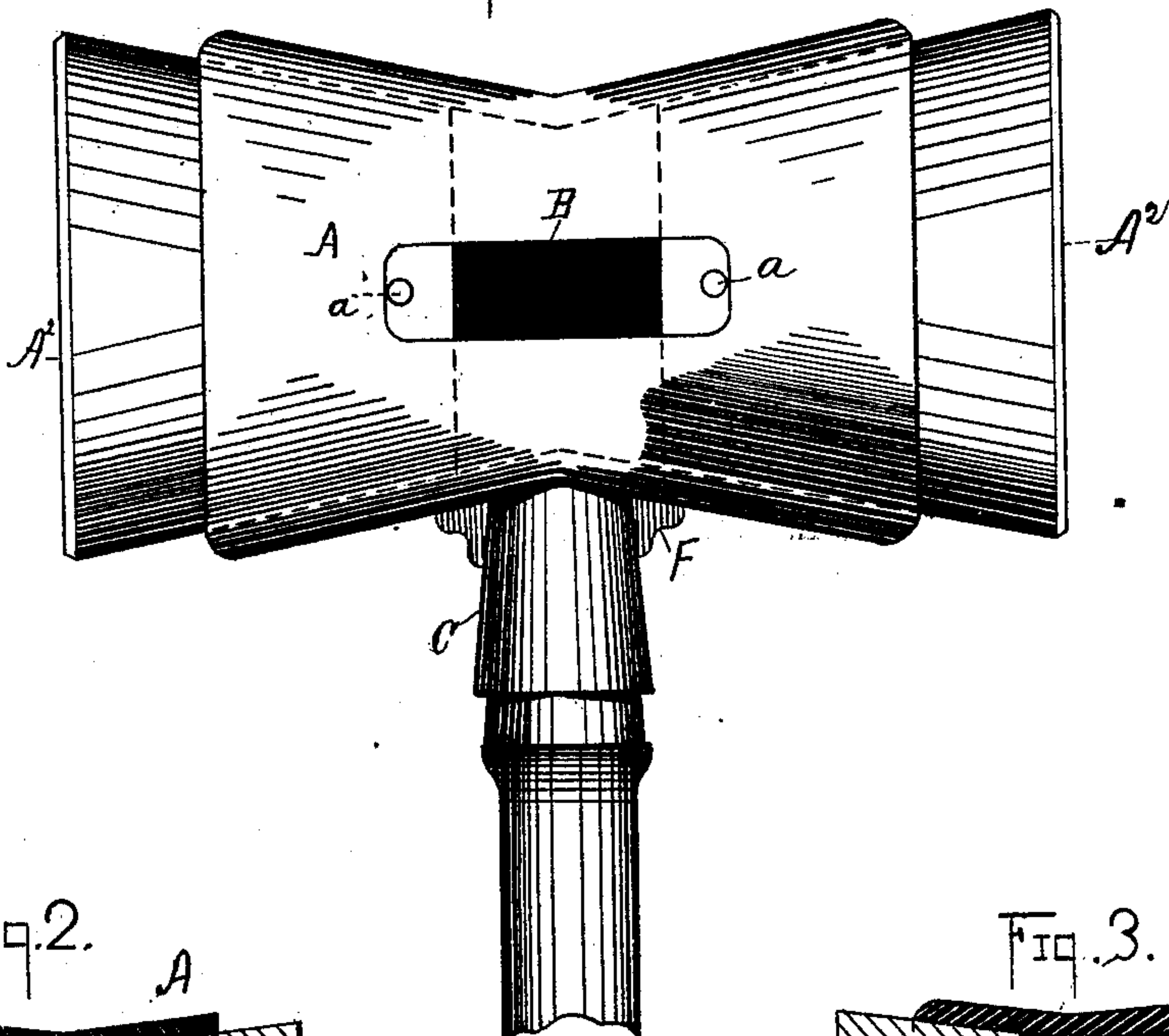


FIG. 2.

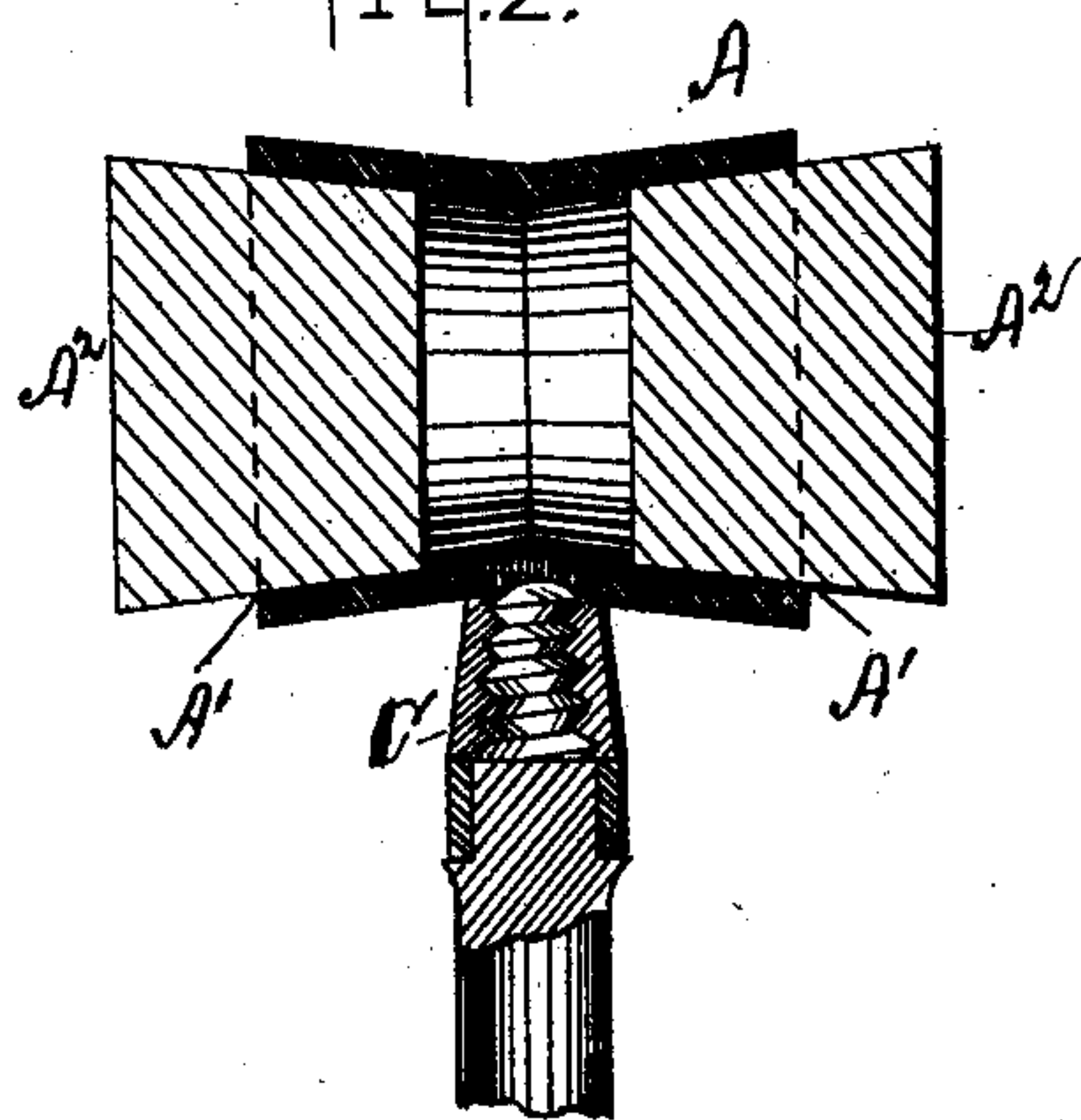
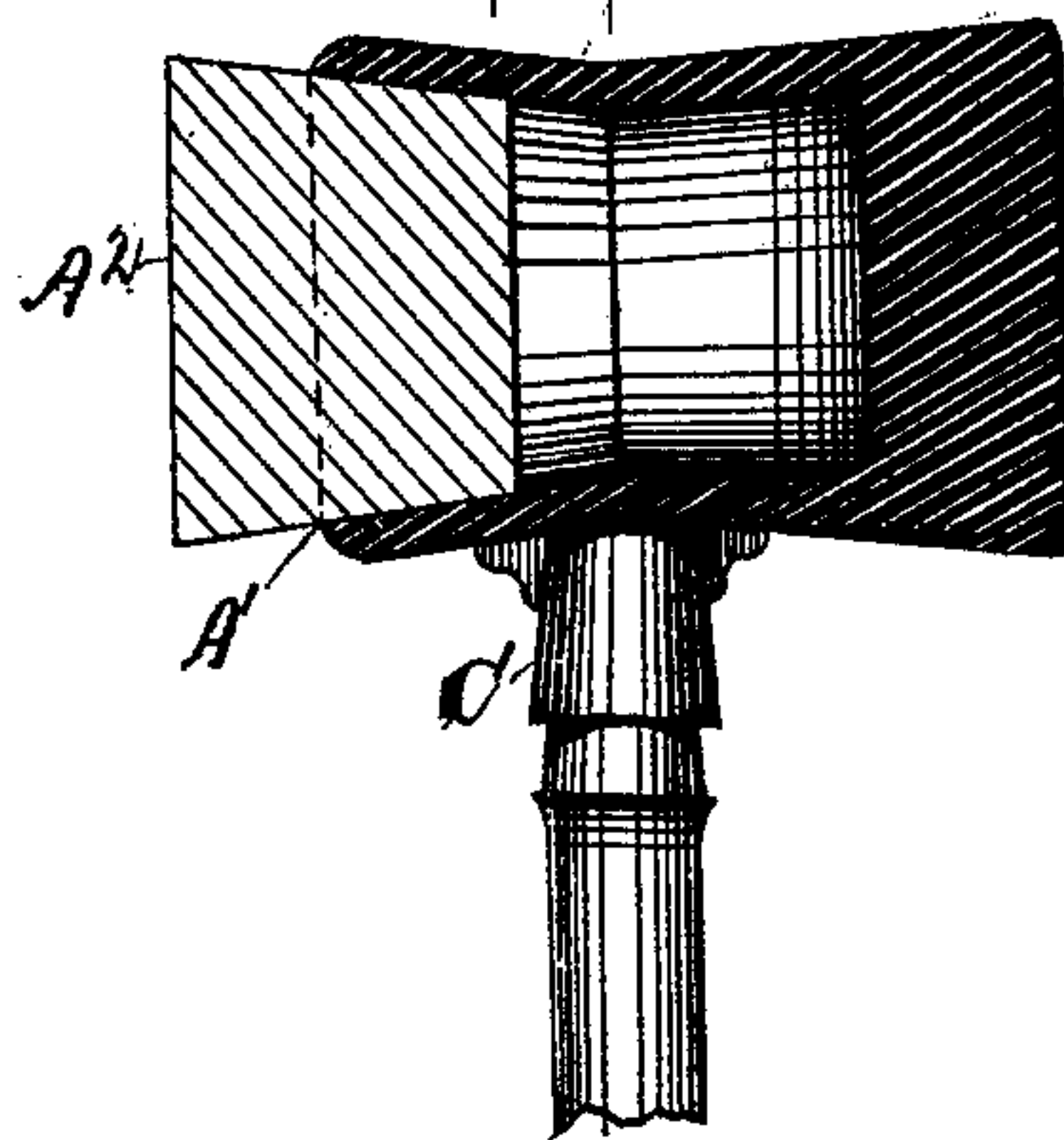


FIG. 3.



WITNESSES.

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SOLON G. HOWE, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF TO
JOSEPH ONELLETTE, OF SAME PLACE.

MALLET.

SPECIFICATION forming part of Letters Patent No. 235,244, dated December 7, 1880.

Application filed October 7, 1880. (No model.)

To all whom it may concern:

Be it known that I, SOLON G. HOWE, of Detroit, county of Wayne, State of Michigan, have invented a new and useful Improvement in Mallets; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form a part of this specification.

My invention consists in providing a metallic frame having one or more tapering sockets for the insertion of separate tapering mallet-heads and a socket to receive the handle.

In the drawings, Figure 1 is a plan view of a mallet embodying my invention. Fig. 2 is a sectional view of such a mallet with a tapering screw-shank upon the handle and a shoulder and ferrule back of the screw-shank adjacent to the socket; Fig. 3, a view of the mallet adapted as a peening-mallet having a wooden or metal separable head at one end and a metal head at the other, the screw-shank upon the handle being tapered and the taper continued below the handle-socket, so as to admit of screwing the handle in farther when it wears loose.

In carrying out my invention, A is a frame of metal, preferably a malleable or other casting. It is provided with two tapering or conical sockets, A', for the reception of counter-shaped wooden plugs or heads A², which may be driven firmly into the tapering sockets and be wedged thereby tightly in place.

As a usual thing the taper of the sockets is such as to hold the heads firmly in place; but, if desired, a pin may be inserted, as shown at a in Fig. 1, to assist in holding the socket in place.

B is a slot in the side of the frame A, into which a suitable tool may be inserted when it is desired to remove or drive loose the wooden heads.

C is a socket for the end of the handle D. This socket may be tapering in form, so as to receive the tapering screw-shank at the end of the handle, and the taper upon the handle may extend below the socket C, so as to admit of tightening up the handle by screwing it in farther if it becomes loose in use. It is

not, however, essential that the handle-socket should be tapered upon the interior, for the screw-shank may be a straight screw, and there may be a shoulder beneath it and a ferrule, if desired, as shown in Fig. 2, so that the handle may be screwed up to a solid bearing against the handle-socket C. So, also, it is not essential, though preferable, that there be any handle-socket, for the handle may be cast in a single piece with the frame A. I prefer, however, a wooden handle, and prefer to secure it to the handle-socket by a screw-connection, as shown, or else by simply inserting and driving the tapered end of the handle into a plain tapered socket, C, and securing it there by a screw or rivet passed through the side of the socket.

The socket-frame A may be made without the slot B; but I prefer to employ it, as it facilitates the removal of the wooden heads.

Instead of making the heads of wood, rubber or other suitable material may be employed for the mallet-head.

I do not confine myself to the construction which has two removable heads or two wooden heads, for one head may be of wood and the other of iron or other material. So, also, the socket A' may be at one end only for the reception of a separable head; and the other be left solid, so as to form a peening hammer or mallet suitable for working sheet metal, &c.

Ribs F are preferably located beneath the frame A adjacent to the handle-socket, for the purpose of stiffening the structure at these points.

What I claim is—

1. A mallet consisting of a metallic frame having one or more tapering sockets, tapering heads driven into said sockets and provided with a slot, through which a tool may be inserted to drive out the heads when desired, substantially as described.

2. A mallet consisting of a metallic frame having one or more inclined sockets tapering toward the center of the frame, and one or more tapering heads tapered to fit the incline of the sockets of the frame, substantially as described, and for the purpose set forth.

3. A mallet-frame of cast metal having two tapering sockets for separable mallet-heads, a

slot, B, for insertion of a tool, and a handle-socket, substantially as described.

- 5 4. A mallet consisting of a metallic frame having inclined sockets tapering to the center of the frame, suitable mallet-heads tapering to fit the inclined sockets, a handle-socket with a tapering screw-orifice, and a screw-shanked handle adapted to fit the handle-

socket, substantially as and for the purpose specified. 10

In testimony whereof I sign this specification in the presence of two witnesses.

SOLON G. HOWE.

Witnesses:

JOS. W. JONES,
JOHN FLETCHER.