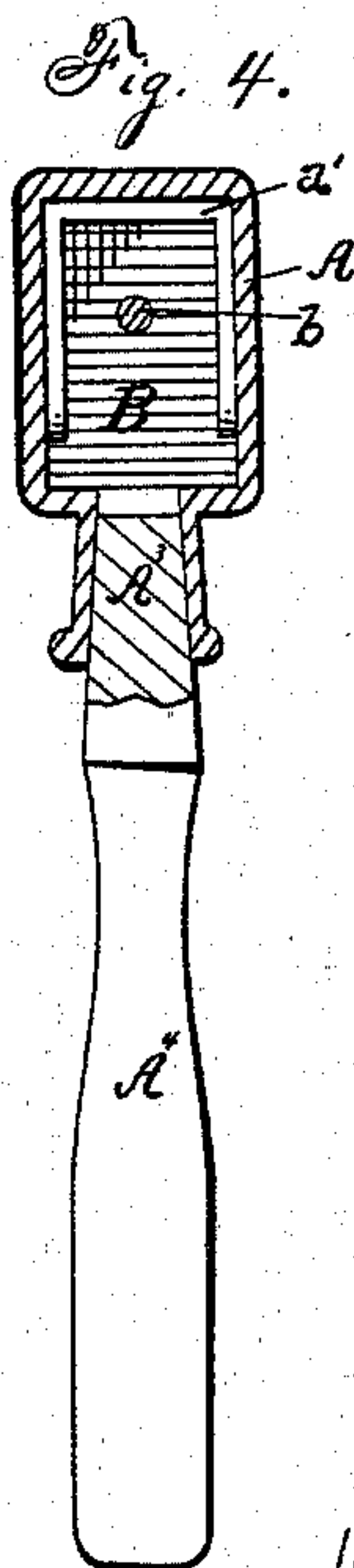
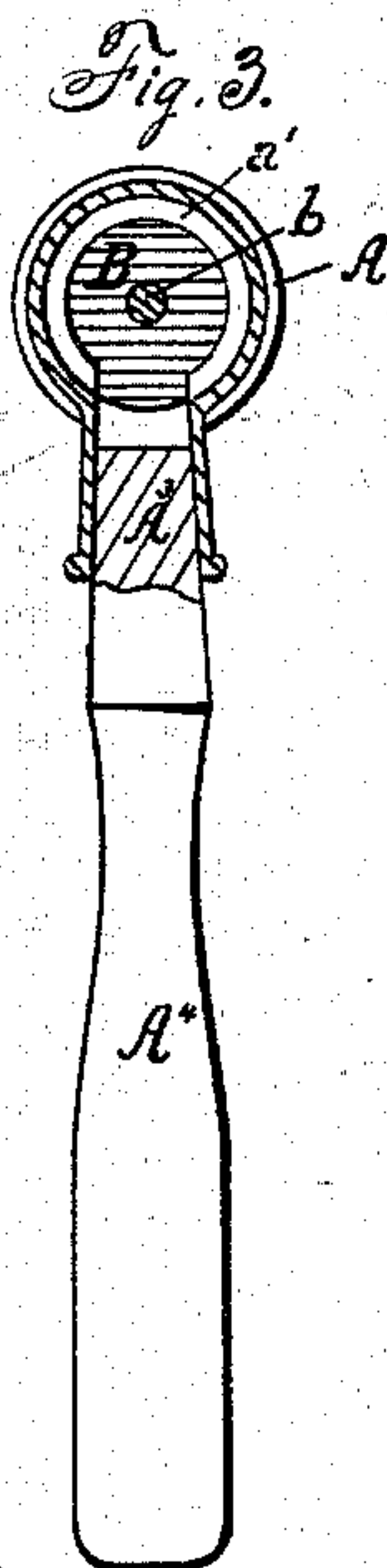
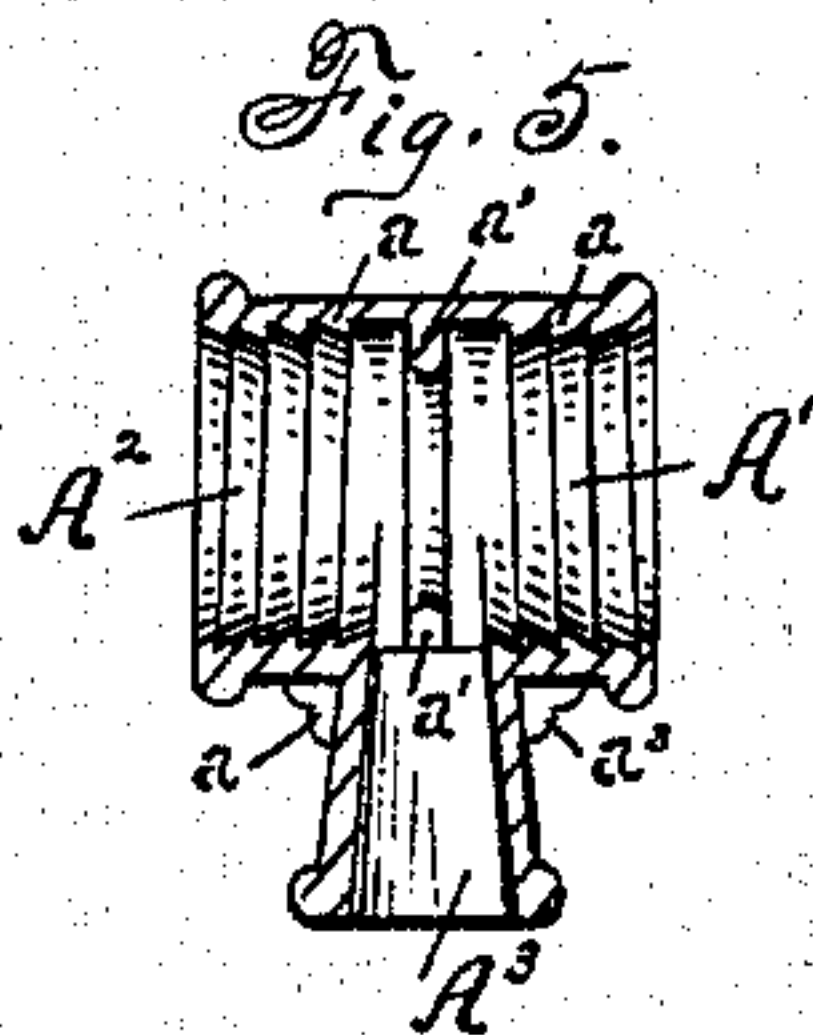
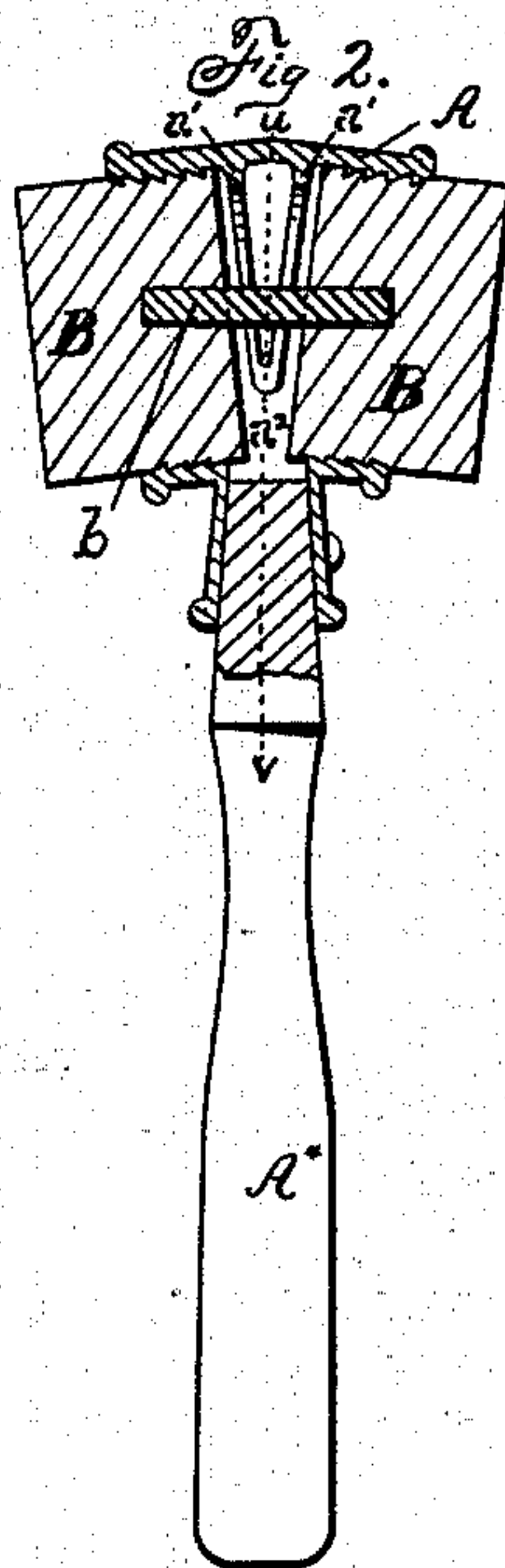
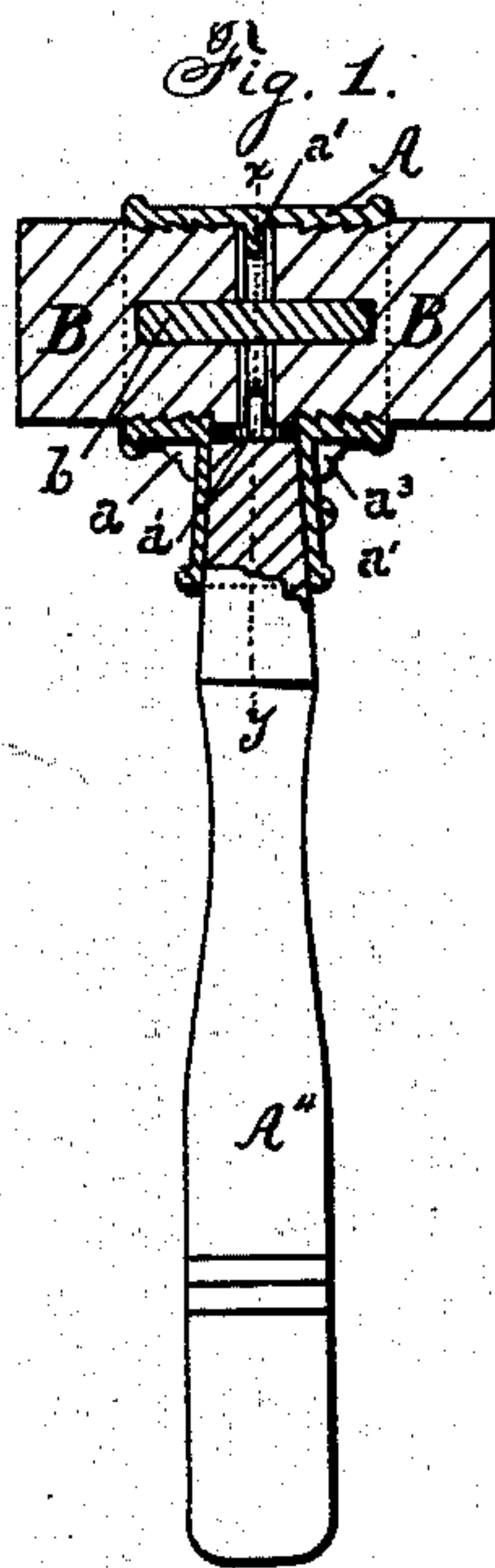


(No Model.)

S. G. HOWE.
MALLET.

No. 276,247.

Patented Apr. 24, 1883.



WITNESSES

Samuel & Thomas.

Edward Warren

INVENTOR

Solon G. Howe
By W. W. Leggett,

Attorney

UNITED STATES PATENT OFFICE.

SOLON G. HOWE, OF DETROIT, MICHIGAN, ASSIGNOR TO GEORGE L. CAR-
RINGTON AND CHARLES F. ELLIOT, OF SAME PLACE.

MALLET.

SPECIFICATION forming part of Letters Patent No. 276,247, dated April 24, 1883.

Application filed July 18, 1882. (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 do hereby declare the fol-
lowing to be a full, clear, and exact description
of the invention, such as will enable others
skilled in the art to which it pertains to make
and use it, reference being had to the accom-
panying drawings, which form a part of this
specification.

My invention consists in the combinations
of devices and appliances hereinafter specified,
and more particularly pointed out in the claims.

In the drawings, Figure 1 is a side elevation
of a mallet embodying my invention, showing
parts in section. Fig. 2 is a variation. Fig. 3
is a sectional view along the line xy in Fig. 1.
Fig. 4 is a variation along the line uv in Fig. 2.
Fig. 5 is a sectional view of the metallic frame.

My invention relates to the manufacture of
mallets, and is especially designed as an im-
provement upon the invention for which Let-
ters Patent were granted to me December 7,
1880, No. 235,244.

In carrying out my present invention, A
represents the metallic frame. A' and A^2 are
the sockets, adapted to receive the mallet-heads.
I desire to construct said frame with either a
straight or curved socket, as may be desired,
as shown in Figs. 1 and 2, and also for either
square or round mallet-heads, as shown in the
drawings.

A^3 is a handle-socket provided with a fillet,
at its juncture with the mallet-frame for the
purpose of strengthening the same. It may
either be made straight or tapering, as may be
desired, for the handle A^4 . Instead of having
the interior faces of these sockets plain and
smooth, I desire to construct them with a series
of suitable retention-grooves, a . These grooves
may be either straight or spiral, and are de-
signed to aid in holding the mallet-heads in
place in the metallic frame.

a' represents one or more central collars, con-
structed on the interior surface of the frame,

adapted to prevent one mallet-head from driv-
ing past the center, and so driving out the
other, should the wood shrink enough to per-
mit their otherwise coming in contact. In
case the sockets be curved for the purpose
herein described, I prefer that a double central
collar should be constructed within the me-
tallic frame, as shown in Fig. 2, in which case
the two faces of the double collar should each
be parallel with the outer face of the frame,
the two points of the collar thus naturally
approaching each other, as shown at a^2 .

B represents the mallet-heads, of wood or
any suitable material, adapted to fit into the
sockets A' and A^2 . I construct one or both of
said mallet-heads with a suitable dowel pin or
pins adapted to hold the heads firmly together
in the sockets, and thereby coact with the
retention-grooves in providing substantial
means for securely confining the mallet-heads
in their proper relative position.

What I claim is—

1. The combination of the frame A, having
the sockets A' and A^2 , constructed with the
retention-grooves a , and the inwardly-project-
ing collar a' , interposed centrally between the
sockets, the separate mallet-heads driven into
the sockets, and the dowel-pin connecting the
adjacent ends of the mallet-head, substantially
as described.

2. The frame A, constructed with the sock-
ets A' and A^2 , having the interior retention-
grooves, a , the inwardly-projecting central
collar, a' , and the laterally-projecting handle-
receiving socket A^3 , in combination with the
separate mallet-heads B, driven into their re-
ceiving-sockets, and a dowel-pin connecting
the adjacent ends of the mallet-heads, sub-
stantially as described.

In testimony whereof I sign this specifica-
tion in the presence of two witnesses.

SOLON G. HOWE.

Witnesses:

J. EDWARD WARREN,
N. S. WRIGHT.