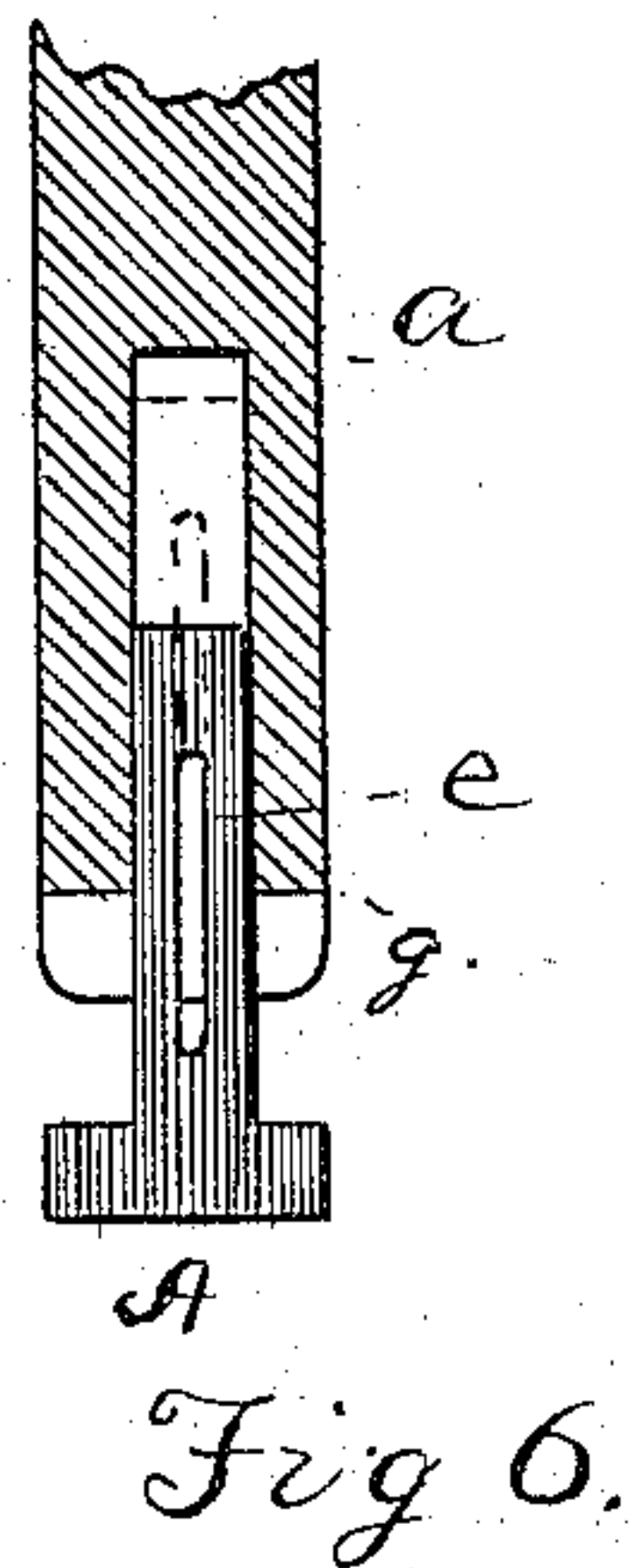
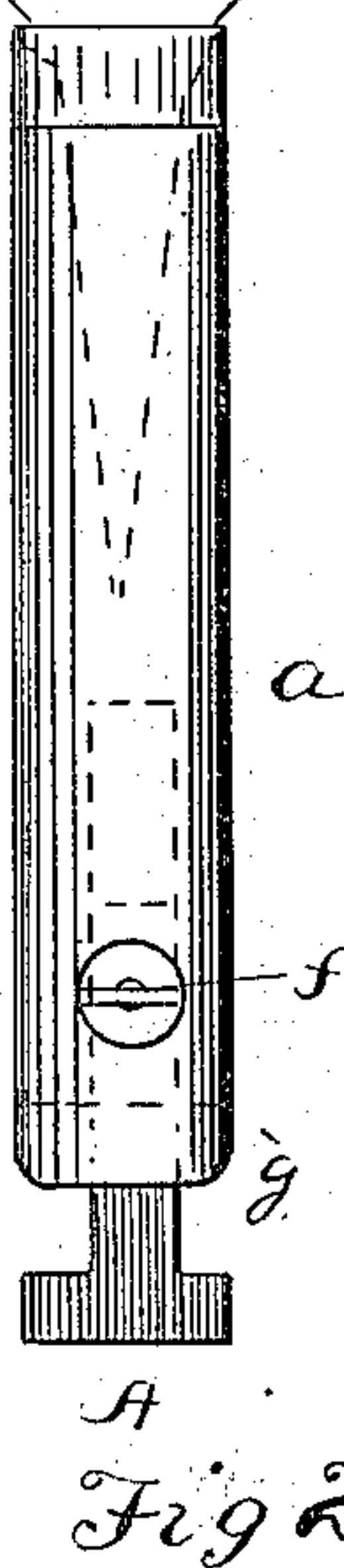
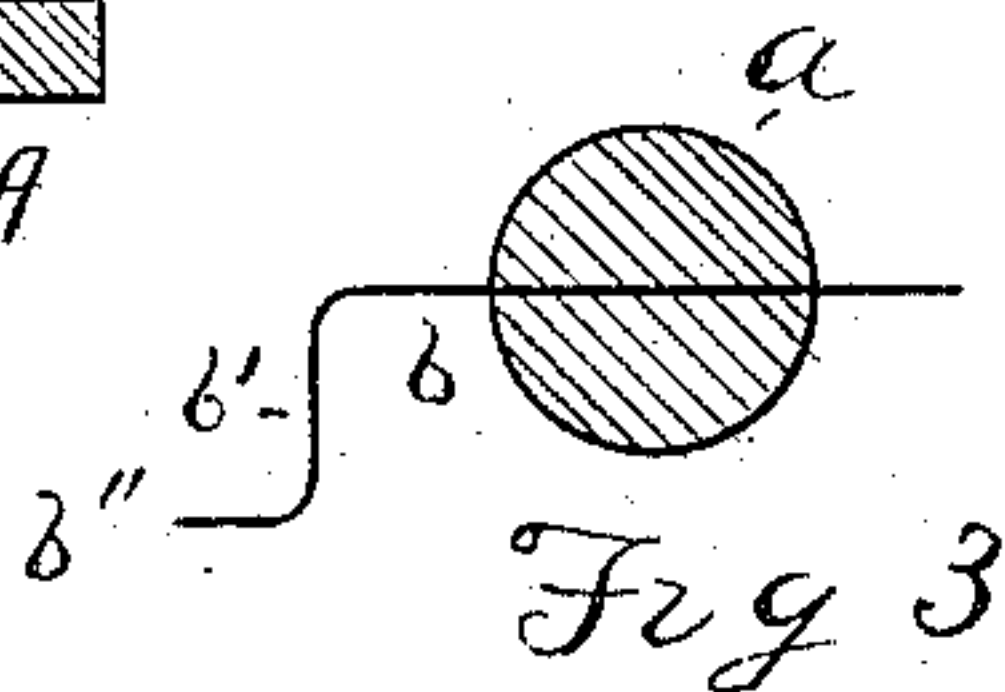
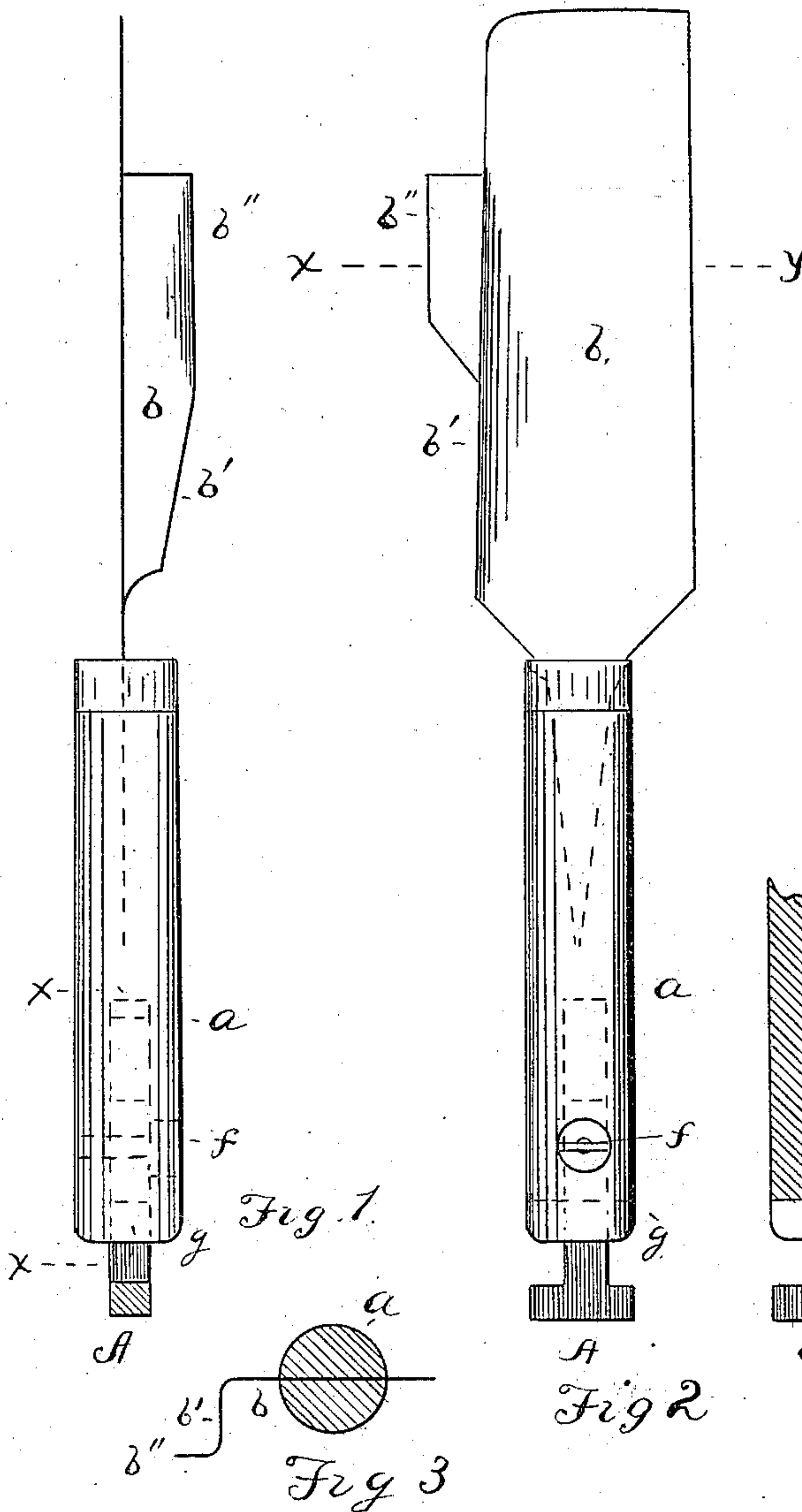
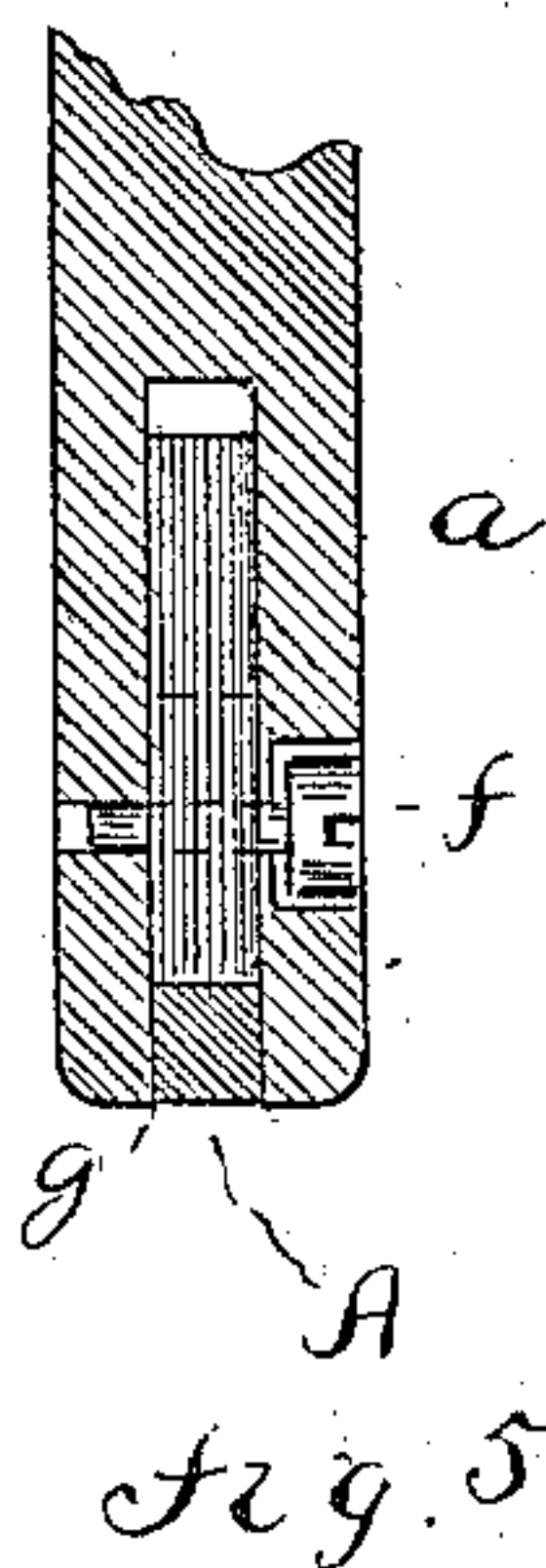
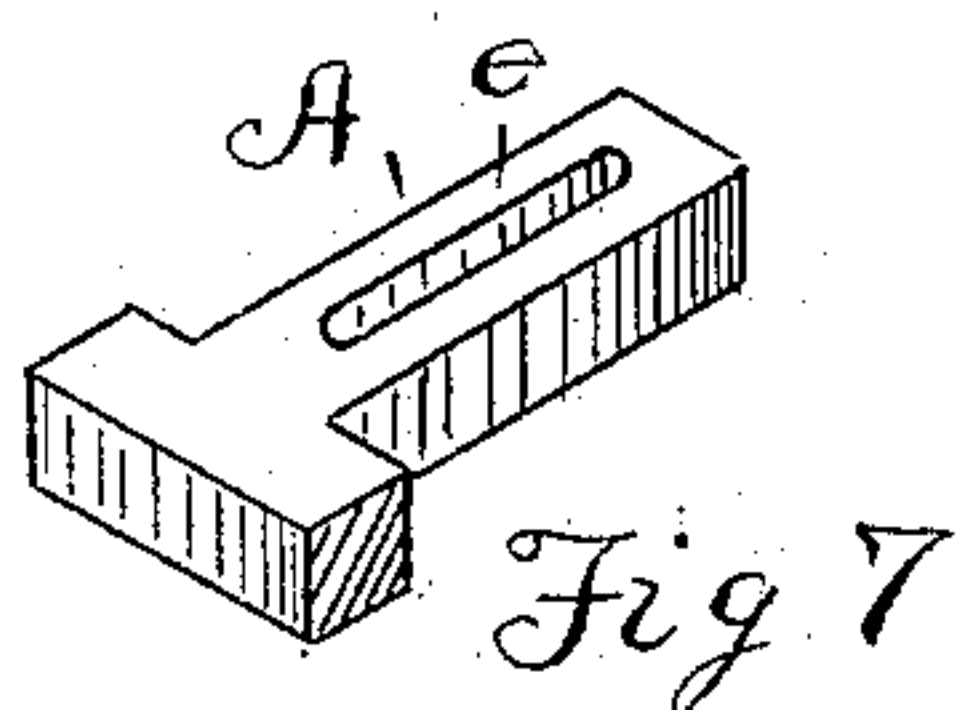
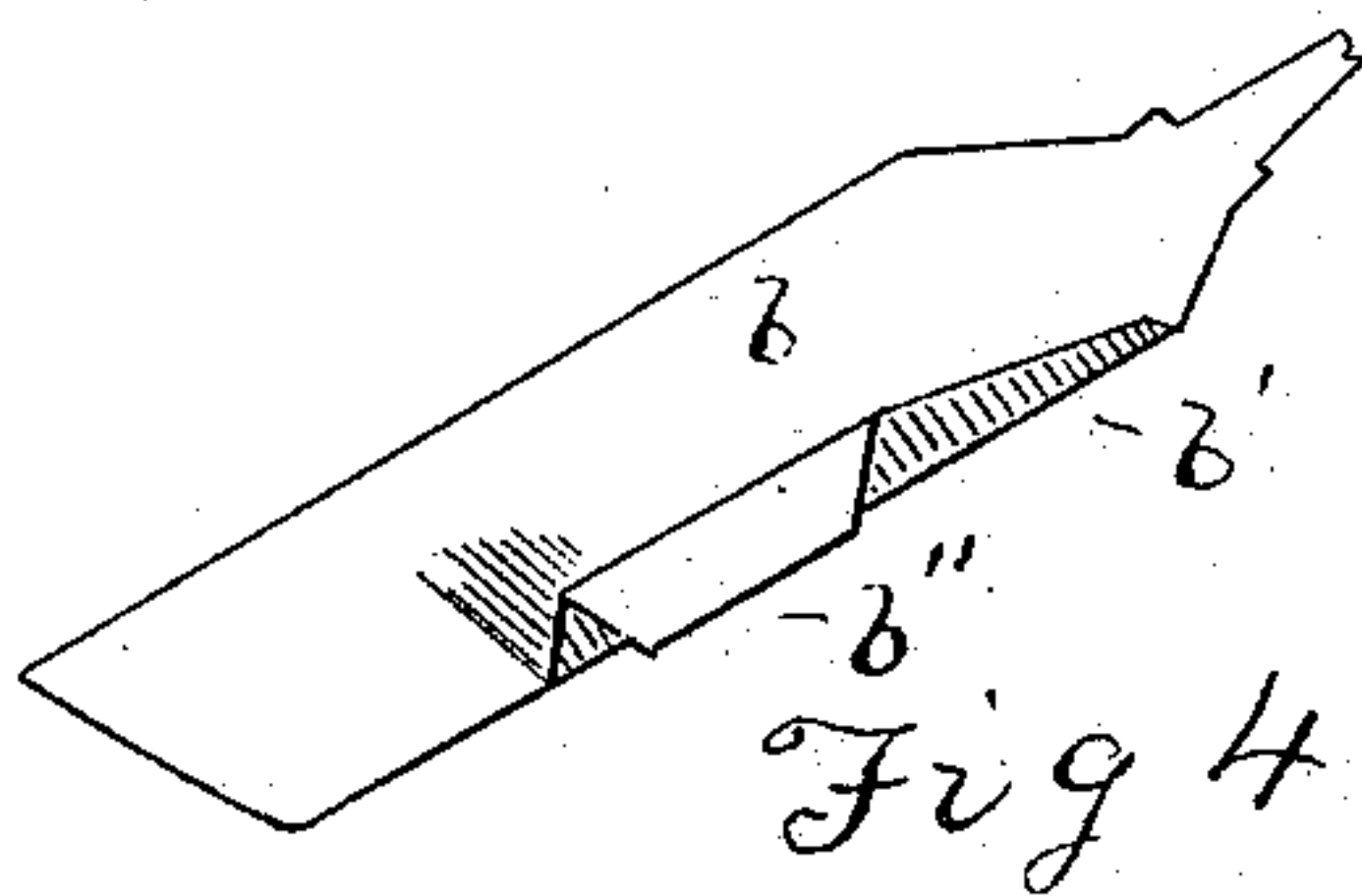


(No Model.)

C. IVES.  
PUTTY KNIFE.

No. 310,682.

Patented Jan. 13, 1885.



WITNESSES.  
Edward H. Wells  
Daniel McEneaney

INVENTOR.  
Charles Ives

# UNITED STATES PATENT OFFICE.

CHARLES IVES, OF CLINTON, NEW YORK.

## PUTTY-KNIFE.

SPECIFICATION forming part of Letters Patent No. 310,682, dated January 13, 1885.

Application filed July 19, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES IVES, of the village of Clinton, in the county of Oneida and State of New York, and a citizen of the United States, have invented a new and useful Improvement in a Putty-Knife; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters and figures marked thereon.

My invention and improvement relates to a novel and useful "putty-knife," hereinafter more fully described, and illustrated in the accompanying drawings, in which—

Figure 1 represents a side view of my improved putty-knife. Fig. 2 represents a front view of the same, with the hammer extended. Fig. 3 represents a cross-section shown at line *x y* in Fig. 2. Fig. 4 represents a perspective view of the blade of my improved putty-knife. Fig. 5 represents a longitudinal section view of the handle of my improved putty-knife, with the hammer taken at line *x x* in Fig. 1. Fig. 6 represents a longitudinal section view of the handle of my improved putty-knife, with the hammer extended. Fig. 7 represents a perspective view of the hammer.

Having described my invention with reference to the figures, as illustrated in the accompanying drawings, I will now proceed to describe it by reference to the letters marked thereon, in which similar letters refer to corresponding parts throughout the several views.

*a* represents a handle in which the blade is inserted so as to be held rigidly.

*b* represents a steel blade of the required width, length, and thickness, provided with a shank which is inserted and held rigidly in the handle.

*b'* represents a right-angled lip, projecting from the side of the blade, which extends from near the shank to within about one and one-half inch of the point, and is turned at right angles from the surface of the blade, the upper portion graduated from the handle toward the point, where the same is constructed substantially parallel to the point of the blade.

*b''* represents another right-angled projecting surface on the side and parallel to the blade on the outer edge of this right-angled projection *b'*, as indicated in Figs. 3 and 4.

Each of these projections are about one-half of an inch in width, with the edges nearest to the handle turned off and the front end cut parallel to the broad end of the blade and from one to two inches from the extremity of the same.

*A* represents a sliding hammer in the handle of the knife, adapted to be extended by means of a slot and screw.

*e* represents a slot in the shank of the hammer, adapted to receive the set-screw *f*, and to permit the hammer to be extended, when desired, by loosening and tightening the same.

*f* represents a screw for extending, contracting, or holding the hammer in the desired position.

*g* represents the recess in the end of the handle.

The distance of the right-angled lip and projections *b'* and *b''* from the point of the blade may be increased or diminished without interfering with the usefulness of my invention.

By the use of my improved putty-knife the operator is enabled to dispense with other implements, and can more readily and easily insert glass, place putty on the frame to hold the glass, or remove the same than by any other implement now known or in use.

Operation: When the operator desires to use the hammer, he loosens screw *f* and extends the hammer until in the required position, where it is held in place by tightening such screw. To remove putty from the sash or frame, the blade *b* is used in the ordinary way, or the lips *b'* and *b''* can be used, the latter by placing the blade *b* against the sash or frame to which the putty is attached, so as to bring the lips *b'* and *b''* at such an angle against the putty as by crowding the knife forward to remove the same. The cutting-surfaces on each can be used in the ordinary way.

In placing putty on the sash or frame the blade *b* or the lips *b'* and *b''* can be used, as the operator wishes, and the lips form a rest for the hand or fingers of the operator while spreading the putty.

What I claim as new, and desire to secure by Letters Patent, is—

1. The herein-described putty-knife, having a handle and a blade inserted therein, provided upon one side of the same with a pro-



jecting lip formed with two right-angled bends, combined and arranged as described, as and for the purposes stated.

2. The herein-described putty-knife, having  
5 a handle, a blade inserted therein, provided upon one side of the same with a projecting lip formed with two right-angled bends, a hammer capable of longitudinal adjustment inserted in the opposite end of the handle,

with a suitable device for extending or con- 10  
tracting the same and holding the same rigidly in position, combined and arranged as described, as and for the purposes stated.

CHARLES IVES.

Witnesses:

DANIEL MCGUCKEN,  
EDWARD H. WELLS.