

P. Viccellio,
Bench Plane.

No. 91,990.

Patented June, 29, 1869.

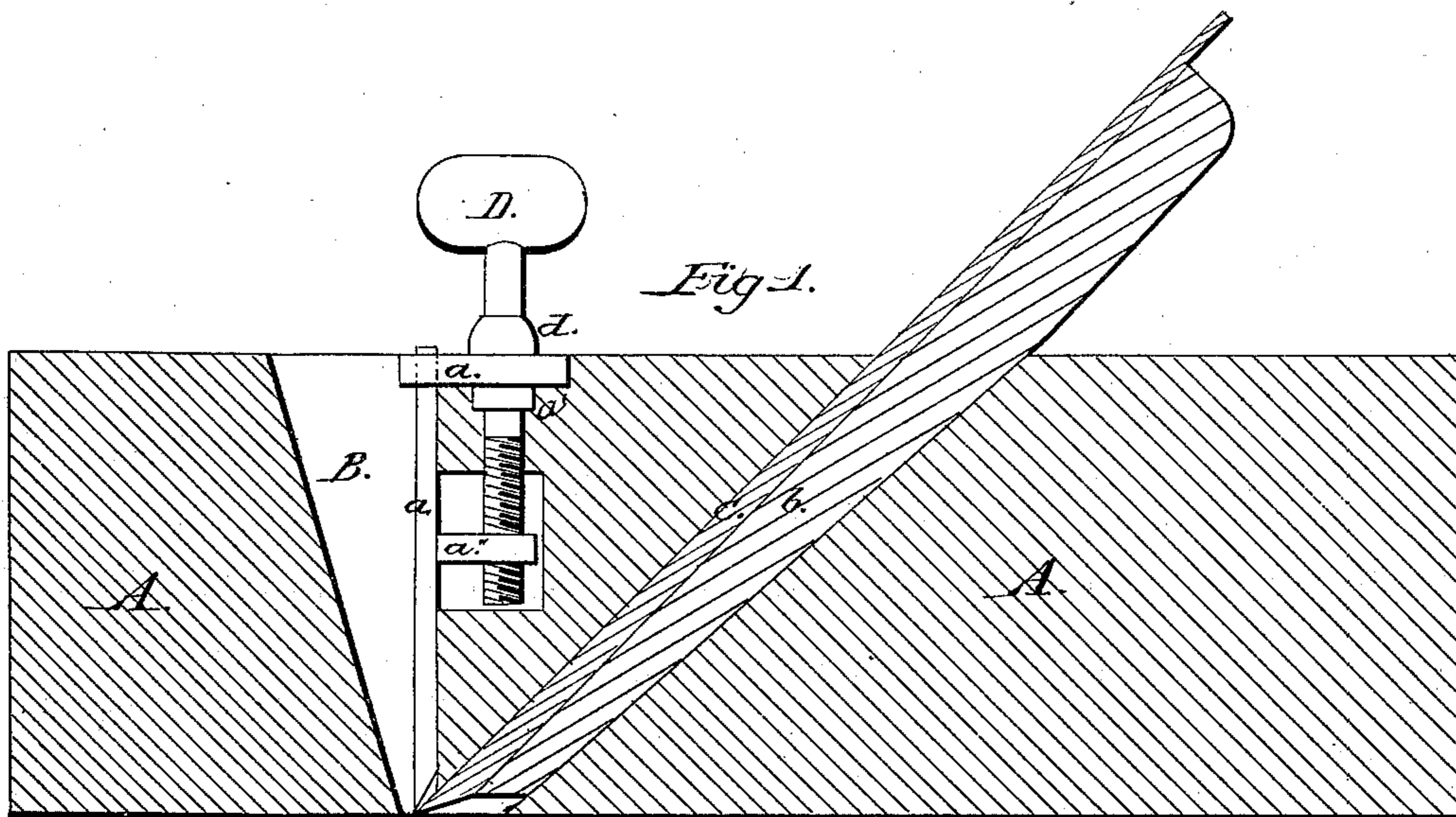
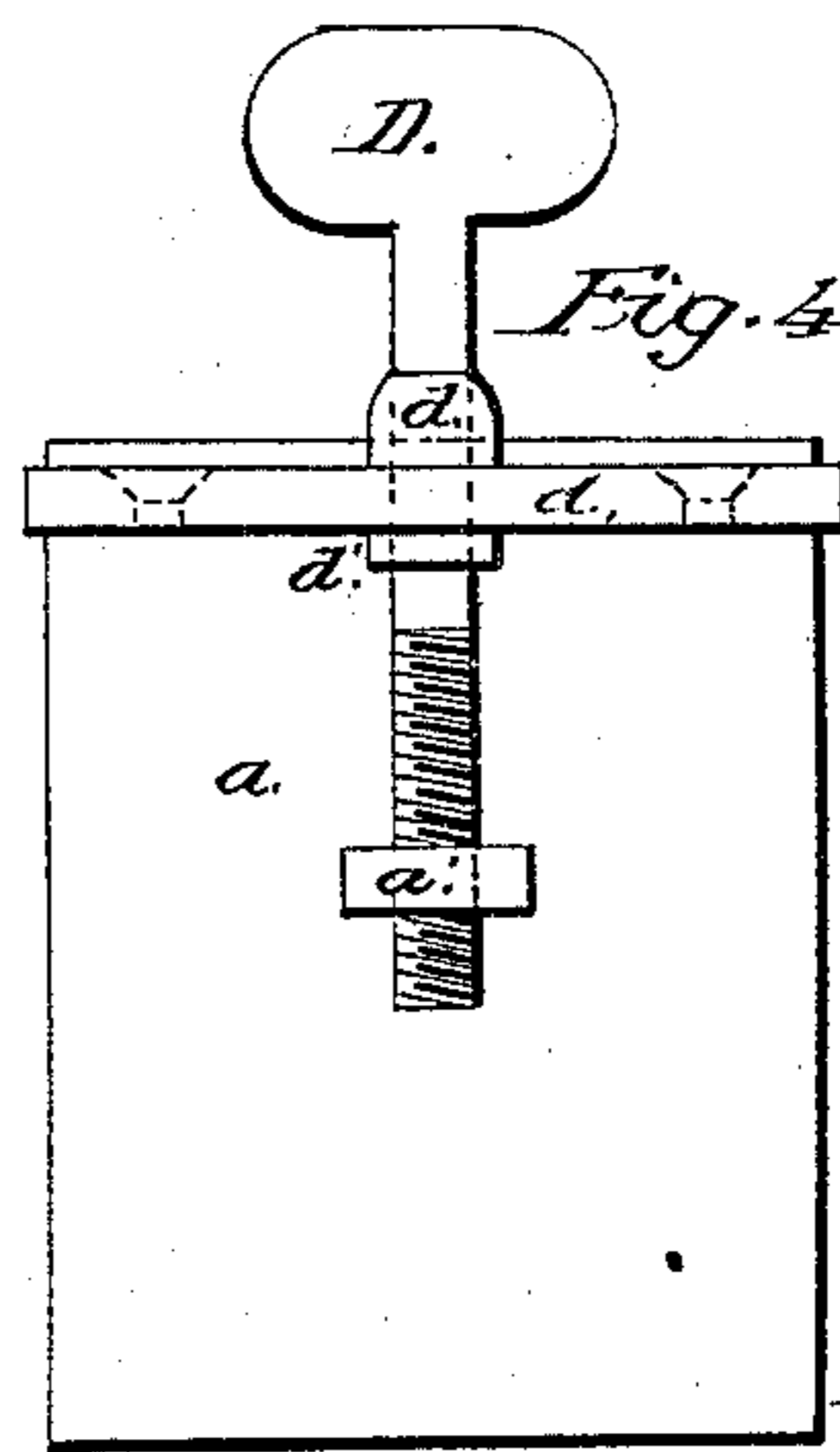
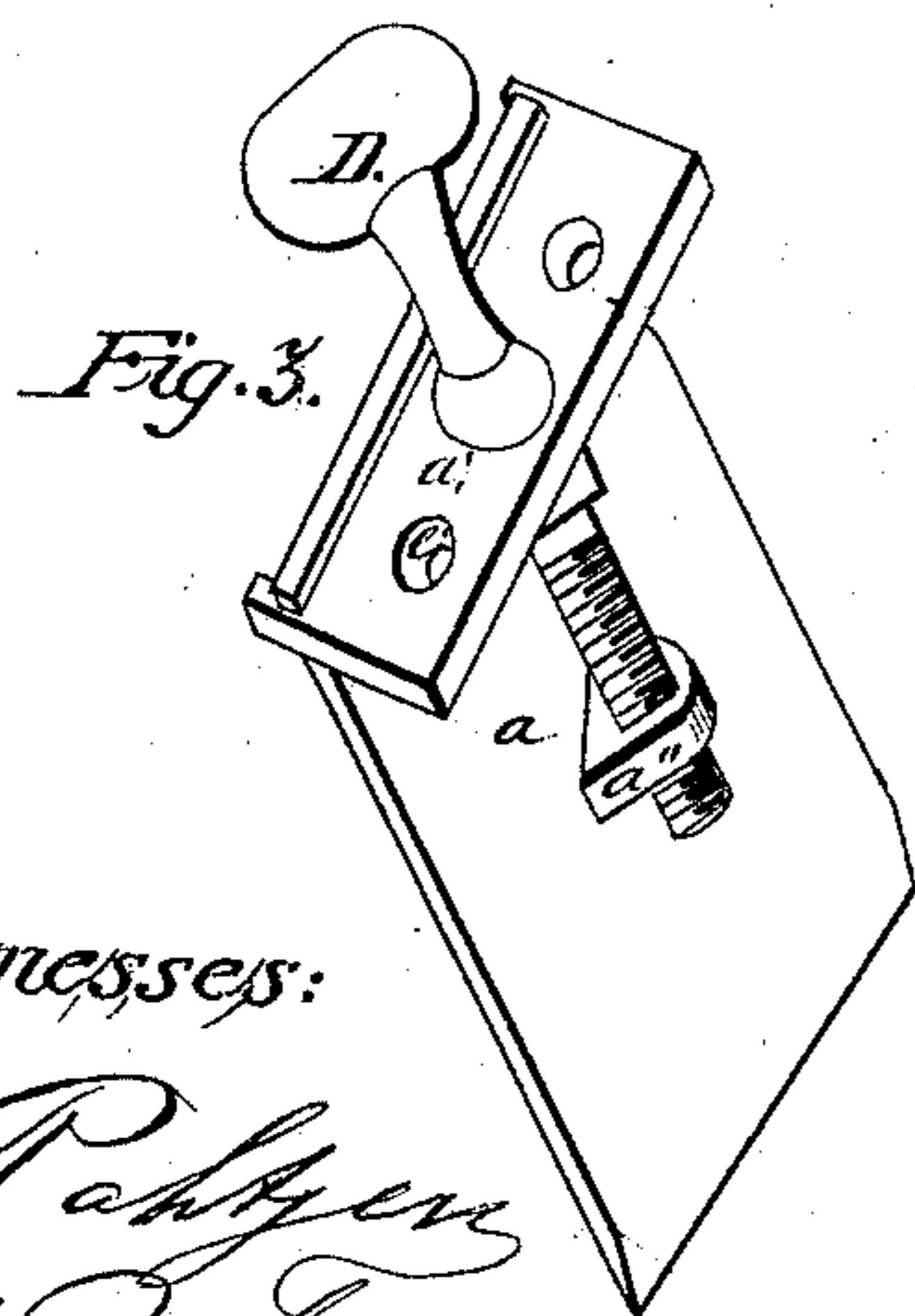
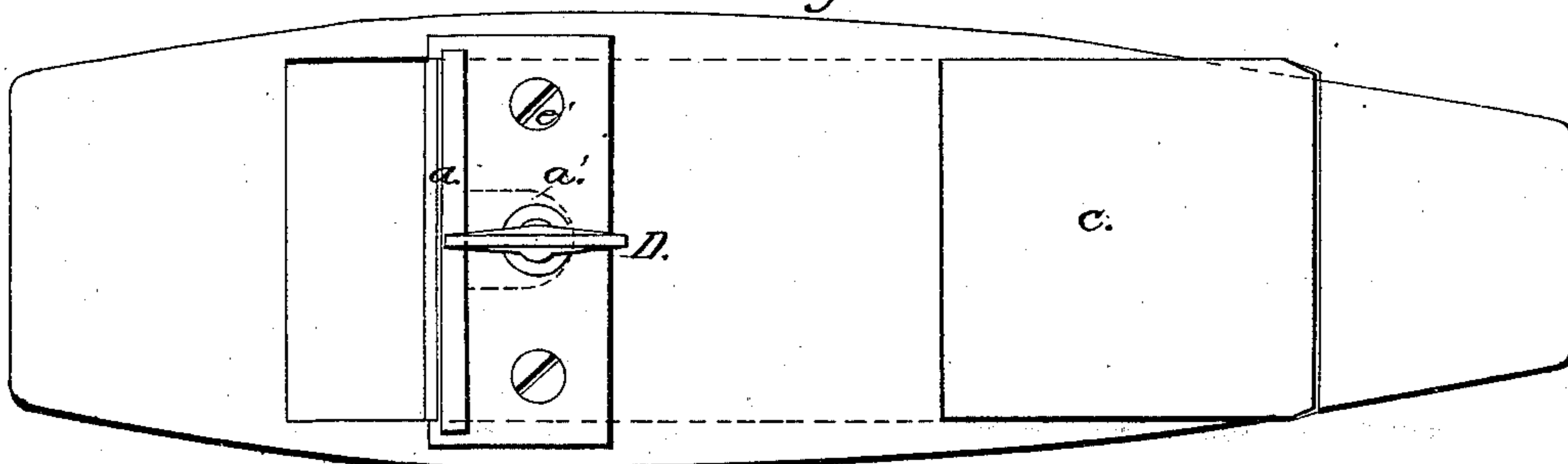


Fig. 2.



Witnesses:
H. R. Ralston
Chas. H. Sanford

Inventor:
Paul Viccellia

United States Patent Office.

PAUL VICCELLIO, OF NEW ORLEANS, LOUISIANA.

Letters Patent No. 91,990, dated June 29, 1869.

IMPROVEMENT IN WOOD-PLANE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, PAUL VICCELLIO, of the city of New Orleans, in the State of Louisiana, have invented new and valuable Improvements in Wood-Planes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The object of this invention is to so construct a plane that the cap may be nicely adjusted upon the plane-bit, without regard to the distance that said bit may project beyond or below the face of the plane; and

It consists of the sliding adjustable, and perpendicular cap, as applied to and adjusted upon the plane bit.

Figure 1 is a longitudinal section of the plane;

Figure 2 is a top view of the plane;

Figure 3 is a perspective view of the cap and its attachments for operating it; and

Figure 4 is a back view of same.

To enable others skilled in the art to make and use my invention, I will describe its construction and operation.

A represents the wood or stock of a common smooth plane.

b is the holding-wedge to plane-bit c. The plane-bit c is set at an acute angle to the face of the plane, in order to secure an easy cut by the bit.

B represents the throat of the plane, with the rear or back side perpendicular, as seen in fig. 1.

Into the wood of the plane, on its top, is a metal plate, a', sunk flush with the wood, and held in its place by screws e', through holes e in plate a'.

The front edge of plate a' is recessed nearly its whole length, or so as to receive cap a in grooves that are cut therein, as seen in figs. 2 and 3, and in said grooves the cap a can freely slide.

Upon the back side of cap a is a lug-nut, a'', having a female screw-thread therein.

There is a thumb-screw D, having collars d and d', upon each side of plate a', so that it is securely held in its position, and upon the lower end is cut a screw-thread which enters into lug-nut a'', and by turning the thumb-screw, the cap a is raised or depressed, as may be desired.

Cap a is acutely bevelled on its rear lower edge, so as to present a sharp edge upon the plane-bit c, as seen in fig. 1, and it can readily be seen that by depressing the cap by means of screw D, the most del-

icate adjustment of the cap upon the plane-bit can be obtained. The bit c can be taken out of the stock A, by releasing wedge b, which in order to hold the bit firmly in position for cap a to act upon, is put in the rear side of said bit c, and is just as effective in holding, adjusting, or releasing the bit, as if it was placed before it.

By placing the cap a in a perpendicular, and the bit at an acute angle with the face of the plane, the shaving is easily severed from the wood, and the cap a crimps the shaving, and insures a clear smooth cut upon the wood, however cross-grained or knotty the wood may be. At the same time the cap is straight on its face, causing only a single bend of the shaving to follow up the face of the cap through the throat and out of the plane, without, in the least, clogging or crimping.

The parts are all simple and cheap in construction and operation, less liable to get out of order by reason of the fewer parts, and making, as a whole, a plane of less cost, more effective and satisfactory in its use, and less trouble to manage while so in use.

I am aware that there are many devices for adjusting plane-bits in the stock, as well as many for adjusting the cap upon the bit.

I am also aware of the plane described in Patent No. 50,378, where the cap is adjusted by means of a set-screw upon the plane-bit.

None of the devices therein described do I claim, as the construction of that plane is more expensive, has more parts, thus increasing the liability to get out of repair, and so constructed that the shaving has to go through a secondary bend to be successfully discharged from the plane.

My improvement can be applied to all kinds of planes, such as jack or fore-planes, and jointers, as well as smooth-planes.

Having thus described my invention,

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

The above-described plane, when composed of the combination of the bit c, wedge b, cap a, and its adjusting-devices, with the stock A, all constructed to operate in the manner and for the purpose substantially as described.

PAUL VICCELLIO.

Witnesses:

WM. MANTY,
F. LURGES.