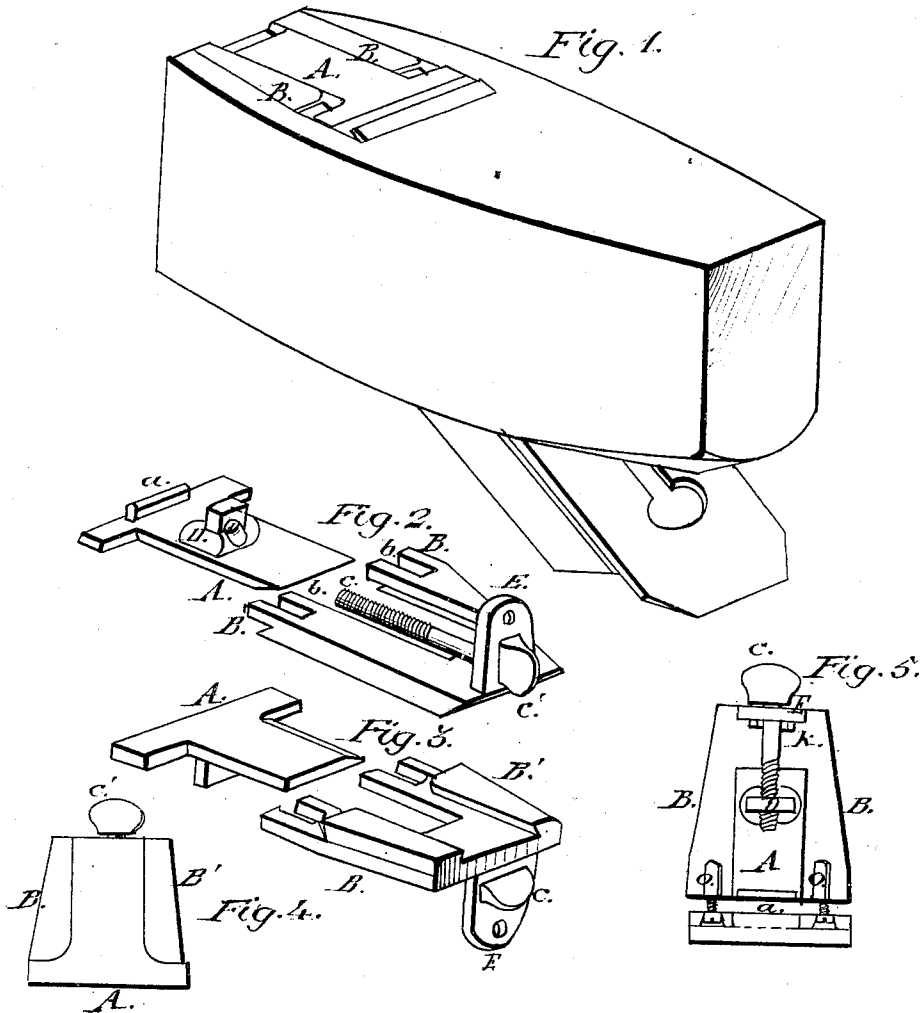


A. H. Comp.

Bench Plane

No. 81,879.

Patented Sept. 8. 1868.



Witnesses:
G. Gerhart Metzger
C. M. Martin

Inventor:
A. H. Comp.

UNITED STATES PATENT OFFICE.

ALFRED H. COMP, OF MOUNT JOY, PENNSYLVANIA.

IMPROVEMENT IN PLANES.

Specification forming part of Letters Patent No. **81,879**, dated September 8, 1868.

To all whom it may concern:

Be it known that I, ALFRED H. COMP, of Mount Joy, in the county of Lancaster and State of Pennsylvania, have invented a new and Improved Device for Adjusting the Width of the Mouth in Smoothing and other Planes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 shows the application of my adjusting-plates to the bottom of an ordinary smoothing-plane. Fig. 2 shows the plates separated; Fig. 3, the same reversed; Fig. 4, both plates joined, showing the outer face; Fig. 5, the same, showing the inner face and rear-edge view.

The nature of my invention consists in the construction of a dovetailed plate, T-shaped, operated by a horizontal screw, and inserted flush with the wood in the bottom or face of the plane before the mouth, and so as to regulate the width or opening of the mouth at pleasure.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same.

Figs. 2 and 3 clearly show the two plates and appliances B B'.

The bed-plate has a central open space with beveled sides and slide-bearings, the sides of one end slotted or perforated for screws. The other end has a raised flange, E, perforated for a thumb or ordinary cut-headed screw-bearing, as also a screw-hole for attaching against the end of the plane, flush with the wood. The adjusting or sliding T-plate A

fits into the space and beveled sides, and is provided with a raised flange, D, having a perforation cut with a thread for the screw C, which is held by a pin or key, K, in the outer flange E on plate B. By this screw C the adjusting-plate A is pushed out or drawn in. Both plates are smooth, and flush on the face with the wood when closed up, as shown by Fig. 4. The same in Fig. 1 is shown pushed out to narrow the mouth.

It is well known that hard and cross-grained or green wood is apt to tear in and get rough when the mouth of the plane is wide, as it should be, for dry and soft wood, to deliver the shavings freely, and by narrowing the mouth the same plane is equally well adapted, and can be, in fact, regulated with ease, for any kind of wood.

This device can be easily affixed to ordinary planes, and requires no special construction of the throat, as in inventions such as Patent No. 14,436, (1856,) or No. 43,053, (1864,) for bench-planes, where a slotted wedge is used in the throat by means of a set-screw and the like, which differ substantially from my combined plates and screw inserted in the bottom of the plane, as set forth.

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

The beveled sliding plate A and beveled grooved plate B B, with their screw-bearings, when constructed to operate in the manner and for the purpose specified.

A. H. COMP.

Witnesses:

J. GERHART METZGER,
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