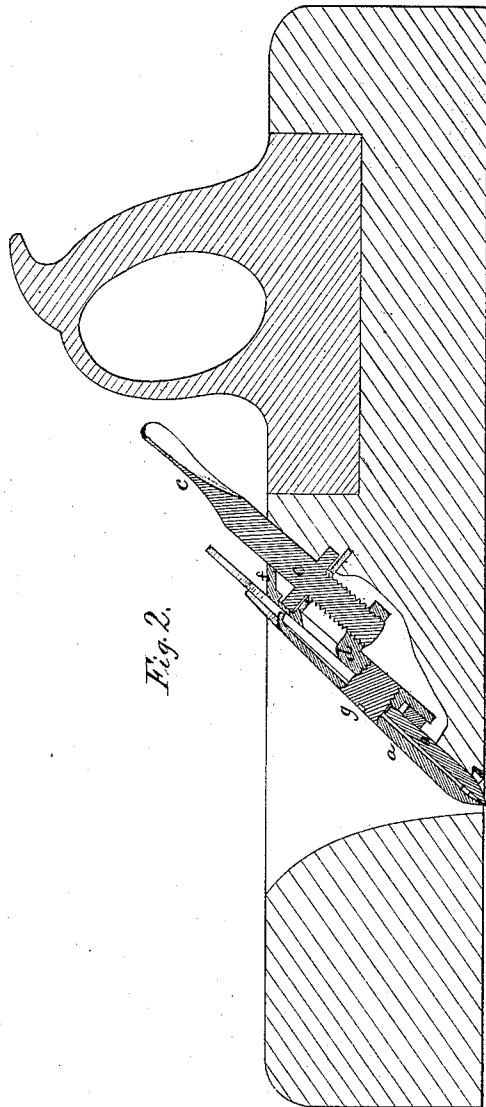
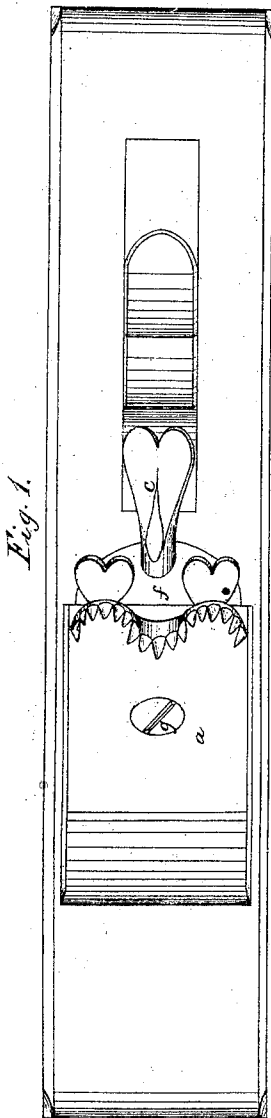
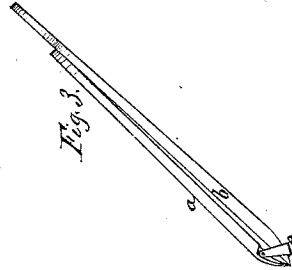


H. C. Hunt,
Bench Plane.

No. 27,983.

Patented Apr. 24, 1860.



Witnesses; *W. Yorke Ardee.*
John W. Chute

J. C. Robbins
att'y for H. C. Hunt.

UNITED STATES PATENT OFFICE.

H. C. HUNT, OF OTTUMWA, IOWA.

BENCH-PLANE.

Specification of Letters Patent No. 27,983, dated April 24, 1860.

To all whom it may concern:

Be it known that I, H. C. HUNT, of Ottumwa, in the county of Wapello and State of Iowa, have invented a new and useful Improvement in Bench-Planes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

In the said drawings Figure 1, is a top view of my improved bench-plane; Fig. 2, a longitudinal section of the same, and Fig. 3, an edge view of the plane-bits detached from the stock.

The double bits *a*, *b*, in my improved bench-plane, are combined with each other, and with the plane-stock in the manner represented in Fig. 2, of the drawings, viz: the cutting bit *b*, has a central slit which passes from its upper end about two thirds the length thereof.

A metallic plate *f*, which is secured to the after side of the throat of the plane-stock, is of such a shape that it furnishes a metallic bearing surface for the cutting bit *b*, and also the requisite supporting and guiding bearings for the set-screw *c*. The screw shank of the set-screw *c*, is received into a screw-aperture in the angular nut *d*, which works in a slot in the throat-plate *f*. The cutting bit *b*, is combined with the front bit *a*, and also with the angular screw-nut *d*, by means of the screw *g*, which passes, first, through an aperture in the front bit *a*, then through the slit in the cutting bit, and then into the screw-aperture in the nut *d*. It will therefore be perceived that while the two bits *a*, and *b*, can be simultaneously moved outward or inward by turning the set-screw *c*, the cutting bit can also be readily adjusted so as to cause its cutting edge to project any desired distance beyond

the closely embracing lower end of the front bit, *a*.

It is well known that the cutting edge of a plane bit is more dulled and injured by the reverse movement of the plane over the surface of a board, than it is during its forward movement; which injurious action I have succeeded in entirely preventing by means of an attachment to the bits of my improved plane which I will now proceed to describe. A protecting metallic strap *e*, whose turned-up extremities are pivoted to the edges of the lower end of the front bit *a*, loosely embrace the lower end of the cutting bit *b*, so that when the plane is shoved forward, the said strap will swing freely upward into a notch which is formed in the plane-stock for its reception; but when a rearward movement is imparted to the plane, the said metallic strap will be drawn outward to a position that will cause it to elevate the front portion of the plane-stock a sufficient distance above the face of the board that it may be operating upon, to prevent the cutting-bit from touching the surface of the board during the said reverse movement of the plane.

Having thus fully described my improved bench-plane, what I claim therein as new and desire to secure by Letters Patent, is—

Combining the metallic swinging strap *e*, with the bits of said plane substantially in the manner and for the purpose herein set forth.

The above specification of my improvement in bench-planes, signed and witnessed this 6th day of Feb., 1860.

H. C. HUNT.

Witnesses:

JAMES S. HARLAN,
ALBERT BALDWIN.