

W. YOUNG.
Plane-Irons.

No. 165,291.

Patented July 6, 1875.

Fig: 1.

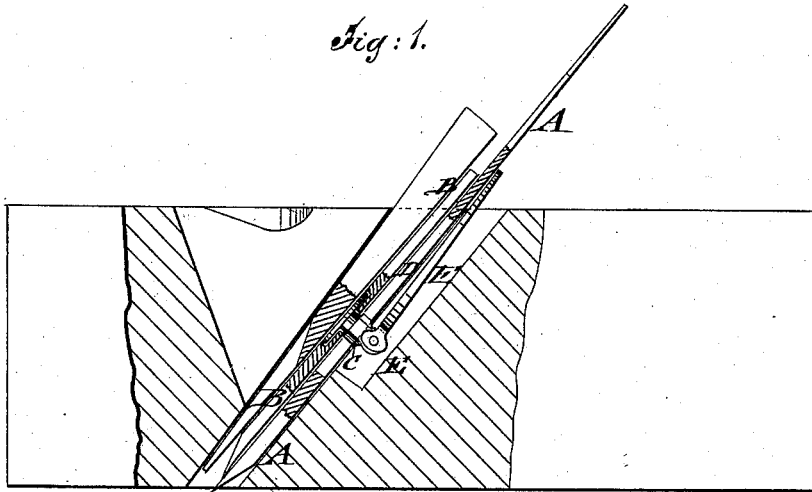
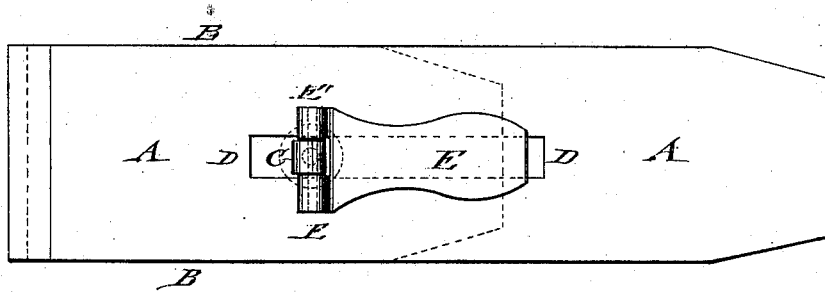


Fig: 2.



WITNESSES:

Chas. Nida
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UNITED STATES PATENT OFFICE.

WILLIAM YOUNG, OF MABON, NOVA SCOTIA.

IMPROVEMENT IN PLANE-IRONS.

Specification forming part of Letters Patent No. **165,291**, dated July 6, 1875; application filed May 15, 1875.

To all whom it may concern:

Be it known that I, WILLIAM YOUNG, of Mabon, in Nova Scotia, have invented an Improvement in Plane-Iron, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical longitudinal section of plane-stock with my improved plane-iron, and Fig. 2 a bottom view of the iron.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved mode of applying the cap-piece to the plane-iron so that it can be quickly adjusted and locked for giving the plane more iron, and thereby the annoying loss of time and the difficulty connected with the screw-locking be avoided.

The invention consists of a slotted plane-iron to which the cap-piece is locked by an eccentric lever pivoted to a post of the same.

In the drawing, A represents the plane-iron; and B, the cap-piece, which is adjusted by a post, C, sliding in the longitudinal center slot D of the plane-iron to the required position for use. The post C is secured, by a countersunk base-plate, to the cap-piece. A locking-lever, E, with eccentric E', pivoted to post C, swings to either side of the same, and locks, by the

eccentricity of its sides, the cap to the iron when carried down on the latter, while admitting the ready setting when it is in a raised position. The plane-iron is fitted tightly in the stock by a wedge-key in the usual manner, the countersunk base-plate of the post of the cap-piece requiring no grooving of the key, and preventing thereby the settling of shavings and the choking of plane.

If desired, the cap may be provided with a series of grooves to lock with two teeth or ridges of the iron, by which the exact connection of cap and iron, without chance of changing their position on applying the lever, is retained.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of a plane-iron, having guide-slot, with the cap-piece, adjusted and secured by an eccentric lever pivoted to post of the same, substantially as and for the purpose set forth.

WILLIAM YOUNG.

Witnesses:

JAMES MURPHY,
EDW. D. TREMAIN.