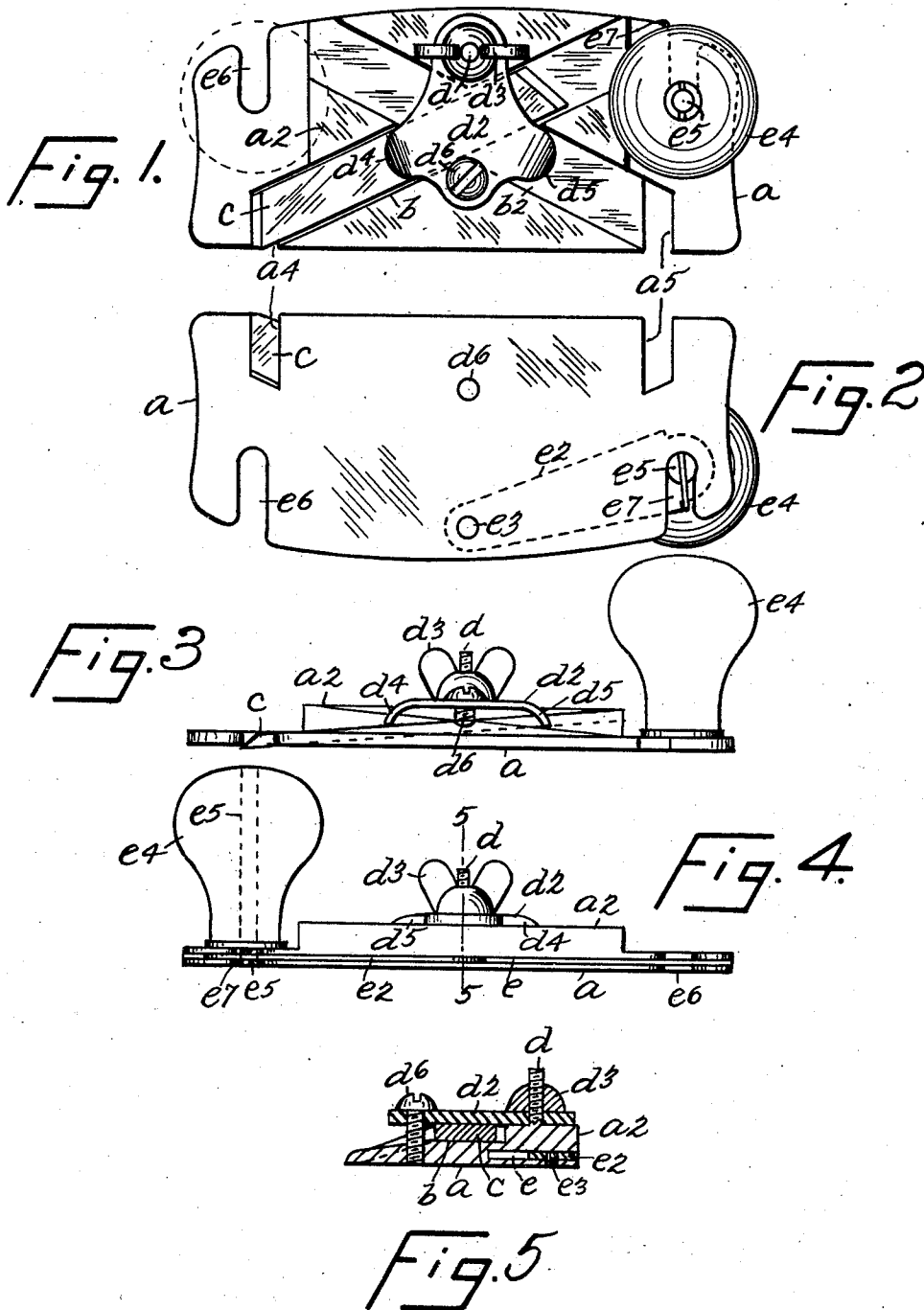


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RABBIT PLANE.
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991,238.

Patented May 2, 1911.



Witnesses:
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UNITED STATES PATENT OFFICE.

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RABBIT-PLANE.

991,238.

Specification of Letters Patent.

Patented May 2, 1911.

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To all whom it may concern:

Be it known that I, WILLIAM POTTER, a citizen of the United States of America, and residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Rabbit-Planes, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to planes, particularly to what are known as side rabbit or molding planes, and the object thereof is to provide means for operation in either direction at will.

A further object is to provide manual means on such planes operable at either end thereof to accommodate the same to varying conditions.

A further object is to provide means in such planes for receiving the blade or iron so as to operate in the manner above set forth.

A further object is to provide means for locking the blade in either position.

A further object is to provide adjusting means at different points of said locking means to meet varying conditions; and a still further object is to provide such a plane which is simple in construction and operation, which is well adapted to the purposes for which it is designed, and which is comparatively inexpensive.

My invention is fully set forth in the following specification, of which the accompanying drawings form a part, in which the separate parts are designated by the same reference characters in each of the views, and in which:—

Figure 1 is a top plan view of a plane constructed in accordance with my invention, ready for use; Fig. 2 is a bottom plan view thereof; Fig. 3 is a side view thereof in the direction of the operating edge; Fig. 4 is a similar view of the other or back edge; and Fig. 5 is a section taken on the line 5—5 of Fig. 4.

In the drawings forming a part of this application I have shown one form of embodiment of my invention, comprising a base plate *a* having a raised portion *a*² thereon provided with two reversely inclined recesses *b* and *b*², each of which is not alone inclined in plan as shown in Fig. 1 but also in elevation as shown in Figs. 3 and 5, from the rear, forwardly and downwardly,

in order to provide the desired angle to the blade or iron *c* and which is adapted to rest in either of said recesses, and, as will be seen in Figs. 1 and 2, the base plate *a* is cut through in the positions of the forward extremities of the said recesses for the passage of the blade *c*, and is provided with a straight edge *a*³ on the same side as the said cut away slots, said slots being designated by the characters *a*⁴ and *a*⁵.

The raised portion *a*² of the base plate carries a screw threaded post *d* which passes through a locking plate *d*² held thereon by means of a wing nut *d*³, said plate *d*² being provided with two downwardly curved members *d*⁴ and *d*⁵ arranged over the inclined recesses *b* and *b*², respectively, and adapted to bear upon the blade *c* in the corresponding recess, and the plate *d*² is also provided with a screw *d*⁶ passed there-through and through the base plate *a* for insuring positive pressure and adjustment upon the said blade.

The back edge of the base plate is provided, as shown clearly in Figs. 4 and 5, with a deep groove *e* in which is an arm *e*² pivoted at *e*³ centrally of the said base plate, said arm carrying a handle *e*⁴ at its outer end in detachable and adjustable engagement therewith by means of a threaded bolt *e*⁵ or the like and the base plate is provided with two slots *e*⁶ and *e*⁷ adapted, each, to receive the said bolt. It will be seen from this construction that the arm and handle are capable of being swung into either of two positions, as shown in full lines and indicated by dotted lines in Fig. 1, and when in either of said positions the handle *e*⁴ may be rotated on the bolt *e*⁵ to lock the arm in such position, the details of this feature being unimportant as many modifications thereof could be made.

It will be observed that the blade or iron *c* is provided with reversely inclined cutting edges at either end in order to accommodate the same to use in either of the recesses *b* or *b*², this being an important feature in a plane of this type to meet varying conditions, the wing nut *d*³ and set screw *d*⁶ being loosened to permit the blade removal and replacing, and the handle *e*⁴ may be swung to the end of the plane best suited to requirements.

Although not shown in the drawings, a plow blade may be substituted for that shown, the straight operating edge of the

base plate being made thin to permit such use, and my plane is capable of many other uses without material change therein, and, while I have shown and described a preferred form of embodiment of my invention, it will be understood that many changes in and modifications of the same may be made without departing from the spirit of my invention or sacrificing its advantages, within the scope of the following claims.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A plane, comprising a base plate having one of its edges straight and being provided with two inclined, intercepting, recesses terminating, each, in an opening on the straight edge of said base plate, a blade arranged in one of said recesses, and means for adjustably holding the same in either of said recesses.

2. A plane, comprising a base plate having one of its edges straight and being provided with two inclined, intercepting, recesses terminating, each, in an opening on the straight edge of said base plate, a blade arranged in one of said recesses, and means for adjustably holding the same in either of said recesses, said blade being provided with oppositely inclined cutting ends, to adapt the same to the use thereof in either of said recesses.

3. A plane, comprising a base plate having one of its edges straight and being provided with two inclined, intercepting, recesses terminating, each, in an opening on the straight edge of said base plate, a blade arranged in one of said recesses, and means for adjustably holding the same in either of said recesses, and a handle pivoted to said base plate and adapted to be swung into operative position at either end thereof.

4. A plane, comprising a base plate having one of its edges straight and being provided with two inclined, intercepting, recesses terminating, each, in an opening on the straight edge of said base plate, a blade arranged in one of said recesses, and means for adjustably holding the same in either of said recesses, a bar pivoted in said base plate, centrally thereof, a handle on the outer end of said bar, and means for locking said handle and said bar to said base plate at either end thereof, said base plate being provided with slots permitting the passage of said handle over said base plate.

5. A plane, comprising a base plate having one of its edges straight and provided with inclined, intercepting, recesses terminating in openings on the straight edge of said base plate, a blade arranged in one of said recesses, a locking plate provided with members over said recesses for engagement with the blade, and means for locking said plate in position.

6. A plane, comprising a base plate having one of its edges straight and provided with inclined, intercepting, recesses terminating in openings on the straight edge of said base plate, a blade arranged in one of said recesses, a locking plate provided with members over said recesses, for engagement with the blade, means for locking said plate in position, and means for adjusting the tension of said plate on said blade.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 21st day of September 1910.

WILLIAM POTTER.

Witnesses:

R. J. SLANDORFF,
J. C. LARSEN.