

(No Model.)

M. P. KENNA.

PLANER FOR WOODCUTS AND ELECTROPLATES.

No. 574,908.

Patented Jan. 12, 1897.

Fig. 1.

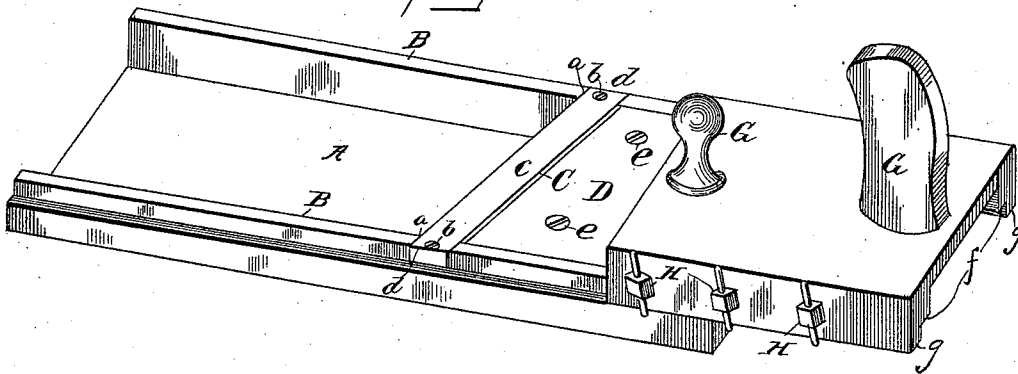


Fig. 2.

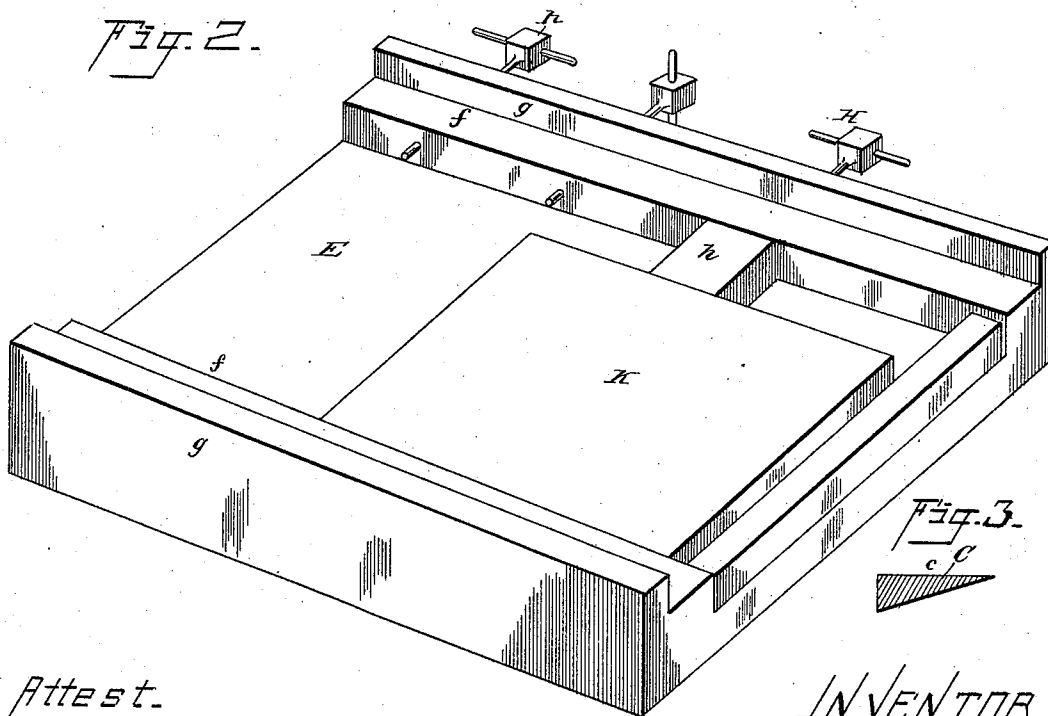


Fig. 3.



Attest.

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PLANER FOR WOODCUTS AND ELECTROPLATES.

SPECIFICATION forming part of Letters Patent No. 574,908, dated January 12, 1897.

Application filed March 23, 1896. Serial No. 584,396. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL P. KENNA, a citizen of the United States, residing at Dubuque, in the county of Dubuque and State of Iowa, have invented certain new and useful Improvements in Planers for Woodcuts and Electroplates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

It is the object of my invention to provide a simple, convenient, and inexpensive planer or shaving-machine for planing off the under surface of cuts, electrotypes, and the like to make them of uniform thickness and the thickness of the length of the type with which they are set for printing.

To aid in more fully understanding my invention, attention is invited to the accompanying drawings, which form a part hereof, and in which—

Figure 1 is a perspective of the planer. Fig. 2 is a view of the under side of the type-high gage or frame for holding the cut for planing, and Fig. 3 is a cross-section of one form of a knife or cutter.

Like letters of reference denote corresponding parts in all of the drawings.

In the drawings, A represents the base of the planer, to which is cast integral therewith the side pieces B. The upper surface of the pieces B are in the same horizontal plane and are preferably smoothed or polished. Within the upper surface of each side piece B is a recess *a*, into which a knife, presently to be described, is secured by the screws *b*. The cutting-blade C may be made of steel with its upper surface *c* level with the side pieces B and its under surface beveled, as shown in section in Fig. 3, and set diagonally in the sides of the bed. The ends *d* are preferably square to fit into the recess *a* in the side pieces B and hold the cutter-blade firmly.

To the bed A of the planer, and just in front of the cutter edge of the blade C, is adjustably secured the gage D, by the screws *e*, for the purpose of determining the thickness of the chip which the cutter will remove at any one time or at any one cut. If the cutter C be a file or a sandpaper bar, then the gage D may be dispensed with.

In Fig. 2 is shown the under side of a type-high gage and holder in which is set the cut or electroplate about to be planed. This consists of an iron plate E, having the type-high gage *f* and the side strips *g*. The type-high gages *f* are of the thickness of the length of ordinary type, and their lower surfaces are in the same plane with each other and also either polished or made smooth to adapt them to slide along upon the upper surface of the side pieces B. The projecting strips *g* are adapted to slide on the outside of the side pieces B to guide its movement. Through one side of the gage *f* are set a series of set-screws H, which project through the bed of the holder and are used for the purpose of holding the cut firmly in the holder. To the upper side of the holder are handles G for the purpose of operating the same.

A convenient mode of operating my device is as follows: The cut K is placed in the upper part of the holder E, with one of its sides resting against a side of the gage *f* and its end against the end of the gage or holder. A key *h* is inserted between the cut K and the gage, if the cut is smaller than the gage. Then the set-screw H is turned until the cut is firmly held in position. The upper portion of the holder is then turned over and the article to be planed rests upon the gage D. The operator then grasps the handles G and pushes the gage across the knife, taking off a thin shaving, and so on until the gage will pass along over the knife and along on the upper surface of B. When this occurs, the cut is just type-high, from the fact that the gages *f* are of the same depth as the length of the type. The same process would be gone through with if the blade C were a file or a sanded bar.

Having now described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a machine of the character described, a gage for holding electroplates to be planed or shaved, having a plate E, one or more type-high gages secured to said plate, means for rigidly securing an electroplate on said plate and a cutter for shaving said electroplate, for the purposes shown.

2. A machine of the character described, consisting of a bed A, having sides B, cutter C, gage D, and a holder with a handle for op-

erating the same and having one or more type-high gages *f*, projection *g*, and set-screw *H*, all combined to operate, as and for the purposes shown.

5 3. A machine of the character described, consisting of a bed-plate with parallel sides, a cutter set in said sides flush with the same, a gage for said cutter, a holder for the electroplate having one or more type-high gages
10 adapted to be moved along on the sides of the bed and means for holding the electroplate in said holder, as and for the purposes shown.

4. A machine of the character described, consisting of a bed with parallel sides, a cutter set with its upper edge flush with the top
15 of said sides and at an angle to said sides, a

gage for said cutter, adjustably set in the bed, a holder provided with a type-high gage having projections adapted to compass the side pieces of the bed, means for adjustably holding the electroplate within the holder and handle for driving the holder with the electroplate secured therein over said cutter, whereby the cut is shaved or planed to the thickness of said gage, for the purposes shown. 20 25

In testimony whereof I affix my signature in the presence of two witnesses.

MICHAEL P. KENNA.

Witnesses:

M. M. Cady,
H. C. Reche.