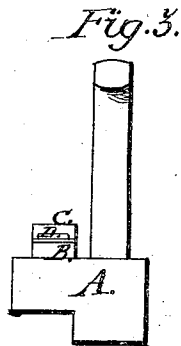
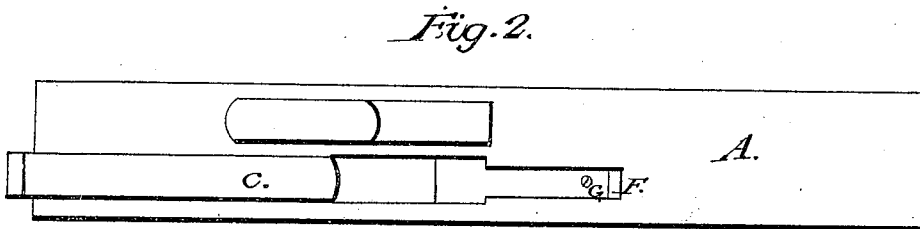
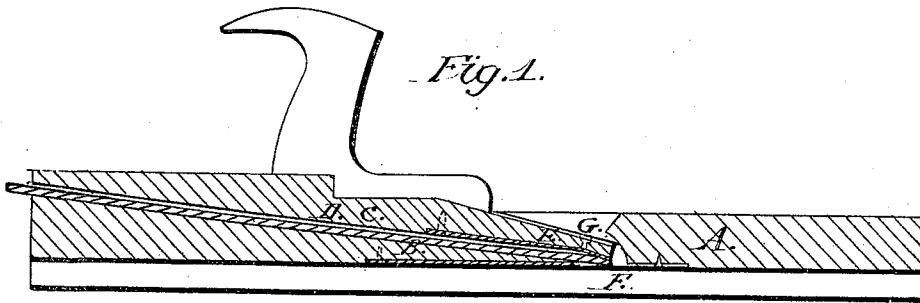


D. E. & A. A. Aiken,

Bench Plane.

No. 77,434.

Patented May 5, 1868.



Witnesses:
Theo. Euske
W. Trevoir

Inventors:
D. E. Aiken.
A. A. Aiken.
Per Munnell
attys

United States Patent Office.

D. E. AIKEN AND A. A. AIKEN, OF ADRIAN, MICHIGAN.

Letters Patent No. 77,434, dated May 5, 1868.

IMPROVEMENT IN SPLINT-PLANES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, D. E. AIKEN and A. A. AIKEN, of Adrian, in the county of Lenawee, and State of Michigan, have invented a new and improved Plane; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The present invention relates to a new and improved plane, or machine for the cutting of slats to be used more particularly in making curtains; and the invention consists in making the throat of the cutter in the wedge, and also in the use of a spring within the throat, so constructed as to cause one slat to push another out, whereby the throat and bit are left free, and all danger of the throat becoming clogged rendered impossible.

This spring also acts to press the slat uniformly and closely up against the bit, thus leaving the slat smooth and straight, and is arranged so as to be susceptible of adjustment for thick or thin slats.

In the accompanying plate of drawings our improved plane is illustrated—

Figure 1 being a central longitudinal vertical section through the plane,

Figure 2 a plan or top view, and

Figure 3 a view of the plane at one end.

Similar letters of reference indicate corresponding parts.

A, in the drawings, represents the stock to the plane made upon its running-face of a right-angular shape, as shown in fig. 3 by an end view.

B, the cutter arranged in the stock A, as in ordinary planes, and there secured by driving a wedge, C, into the stock over the cutter, this wedge being cut out upon its under side to form or leave a passage or throat, D, between it and the top of the cutter B.

E, a bent spring secured in wedge C along its under side, with its loose end toward the opening F in the running-surface of the plane, which spring is susceptible of adjustment by means of a set-screw, G, in the wedge C, in proper position to bear therein.

Among the many advantages of our improved plane or slat-cutter may be here mentioned that for the following reasons it is superior to all others:

It is simple, cheap, and easily kept in order, runs remarkably easy, makes a superior slat, lighter, smoother, and more durable than any other, producing what is called a wafer-slat, which is more durable, for the reason that it does not cut the thread used in forming the slats into curtains.

We claim as new, and desire to secure by Letters Patent—

The wedge C of the plane provided with a longitudinal groove in its under side, in which is secured one end of the spring E, whose free end is adjusted to regulate the thickness of the slat to be cut by the screw G passing through the wedge, all constructed, arranged, and operating as described for the purpose specified.

D. E. AIKEN,
A. A. AIKEN.

Witnesses:

A. M. ALLEN,
C. B. JOHNSON.