

F. K. Plumbly,
Dressing Staves.

N^o 83,089.

Patented Oct. 13, 1868.

Fig. 1

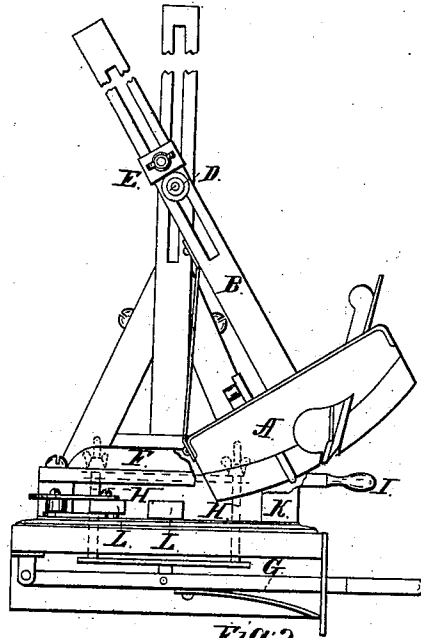
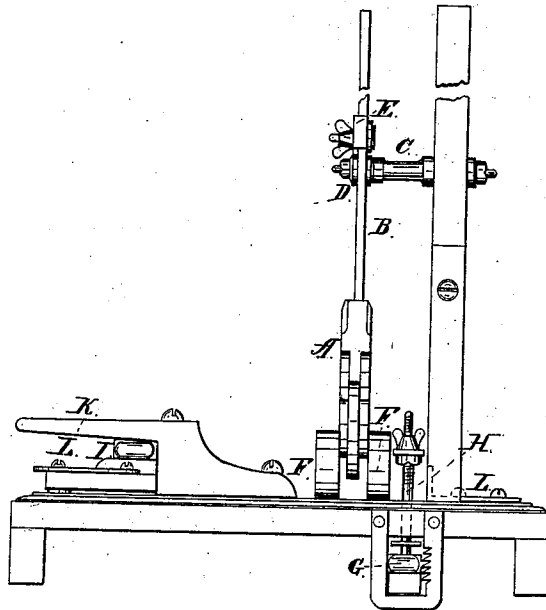


Fig. 2



Witnesses:
E. W. [unclear]
Mich. S. Ware.

Inventor:
F. K. Plumbly

United States Patent Office.

F. K. PLUMBLY, OF BUFFALO, NEW YORK.

Letters Patent No. 83,089, dated October 13, 1868.

IMPROVEMENT IN PLANING-MACHINES.

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

To all whom it may concern:

Be it known that I, F. K. PLUMBLY, of the city of Buffalo, in the county of Erie, and the State of New York, have invented a new and improved Hand Planing-Machine for planing the crozes in tank and cistern-staves; &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 represents a front view, a portion being cut out so as to show all the working-parts.

Figure 2 is a side view.

Letter A is a circle-plane secured to the suspending-rod B. It is provided with a cutter on both sides and a cutter on its face, for the purpose of cutting and planing a groove across a stave. The bottom of said groove will become curved in consequence of the suspending-rod B and gauge-block E.

B is the plane-suspending rod. It is secured with one end to the plane A, and with the other end to rest-pin C. It is provided with a long slot-hole, into which are secured a movable box, D, and a gauge-block, E. Said box fits and turns on rest-pin C, and as the plane A is cutting progressively, D slides up in said slot until it comes in contact with E. The rod B becomes then suspended, and causes the plane to describe a true circle, and in consequence of which, the bottom of the grooves, or crozes, as they are technically termed, becomes curved correspondingly.

C is the rest-pin. It is secured into a long slot-hole in the upright, as seen in fig. 1. It may be shifted up or down in order to suit the desired sweep of the rod B and plane A.

E is the gauge-block. Its object is to make the plane become suspended as soon as the desired depth of the croze is obtained. It may be shifted in the slot for

the purpose of making it to correspond with C.

F F are two guides for the purpose of guiding the plane A.

G is a lever secured beneath the bed-plate. An adjustable yoke H is connected to it about in the middle. Said lever is also provided with a latch-spring on its lower side for the purpose of raising the lever with the yoke H whenever the same becomes disengaged from the ratch-tooth, as seen in fig. 2. The whole arrangement has for its object the securing of the stave to be grooved down to the bed-plate.

H is an adjustable yoke. It is for the purpose of answering various sizes of staves. It is varied by means of two thumb-screws, as is to be seen in figs. 1 and 2.

I is also a lever for the same purpose as lever H. It is secured to the top of the bed-plate so that the stave may be put in between the lever and bed-plate. It is held down to the stave by means of an incline, K.

L L are two guides for the purpose of setting the stave.

It can easily be observed how to operate this machine. Put a stave at the place provided for, then secure it down to the bed-plate by means of G, H, and I. The plane is then to be put in between guides F F, and moved forward and backward like an ordinary hand-plane.

Having thus fully explained and described my invention,

What I desire to secure by Letters Patent, is—

The combination of the hand-plane A with the suspending-rod B, box D, rest-pin C, and gauge-block E, all constructed to operate substantially as described.

F. K. PLUMBLY.

Witnesses:

H. WM. DOPP,
MICH. I. STARK.