

J. B. Schmid,

Dovetailing Machine

No. 109675.

Patented Nov. 29. 1870.

Fig. 1.

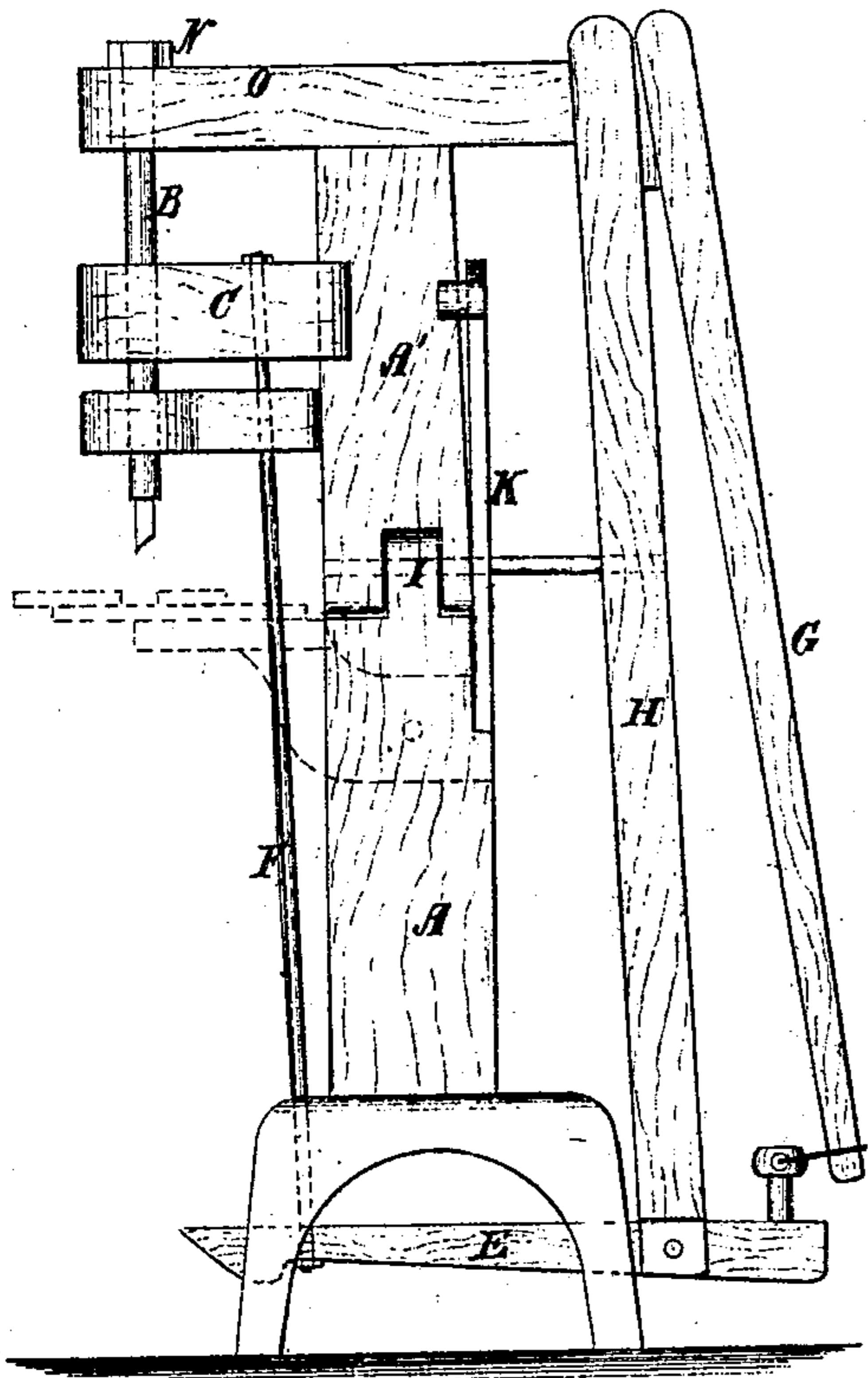
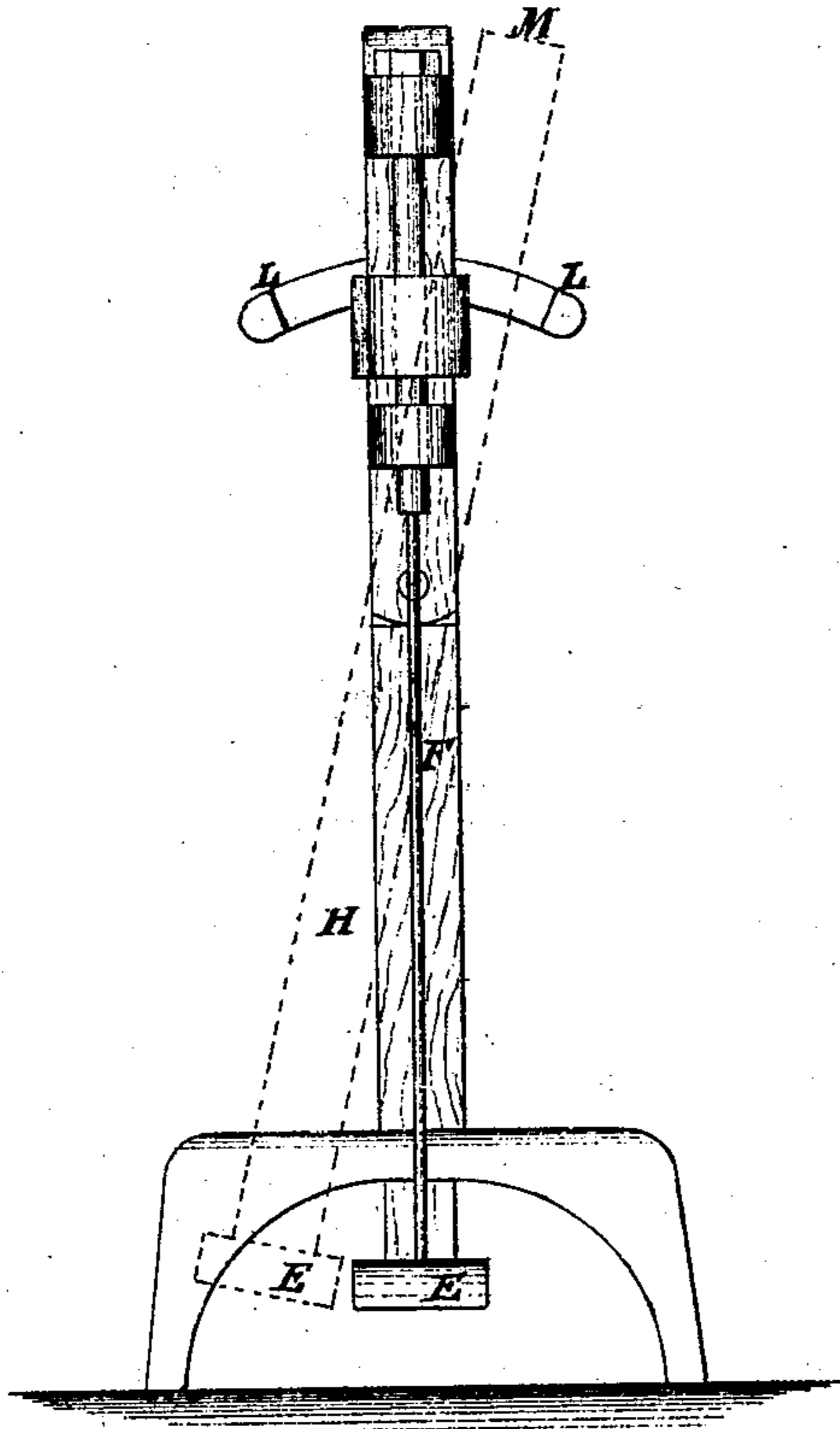


Fig. 2.



Witnesses:

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JOHN B. SCHMID, OF SALEM, VIRGINIA.

Letters Patent No. 109,675, dated November 29, 1870.

IMPROVEMENT IN DOVETAILING-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, JOHN B. SCHMID, of Salem, in the county of Roanoke and State of Virginia, have invented a new and useful Improvement in Dovetailing-Machines; and I 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 drawing forming part of this specification.

This invention relates to improvements in dovetailing-machines, and consists in certain new and improved arrangements of the common foot-power mortising-machines, whereby they may be converted into dovetailing-machines, and yet preserve them for action as mortising-machines.

Figure 1 represents a side elevation of my improved machine, and

Figure 2 represents a front elevation of the same.

Similar letters of reference indicate corresponding parts.

A represents the vertical support;
B, the chisel;
C, the chisel-guide;
E, the treadle;
F, the rod for working the chisel;
G, the spring; and
H, the spring and treadle support of the ordinary foot-power mortising-machine.

My invention consists in jointing the support A at I, on a line with the top of the table or nearly so, mounting the spring and treadle-support H on the pivot-bolt of the joint I, and providing the vertical

extension K of the lower part of the support A, the curved bar L, and a clamping-bolt and nut or other device for holding the upper part A' of the support in the oblique position seen in dotted lines M, or in the reverse position, whereby the apparatus may be used for cutting the oblique walls of the tenons for making the dovetail points, the boards being moved up to the chisels in lines parallel with the table.

For cutting the notches with vertical walls oblique to the edges of the boards, I use a feeding-table, similar to that described in another application for a patent for improvements in dovetailing-machines, bearing even date herewith and marked case A.

I also propose to make the chisel-stocks B adjustable vertically for varying the depth of cutting, and for this purpose I provide the adjusting-nuts N, screwing on to them above the upper support O, more or less, as the chisels are required to work higher or lower relatively to the table, the downward movement of the chisel being limited by the nut.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The arrangement, in a foot-power mortising-machine, of joint I, extension K, curved bar L, and clamping-bolt and nut, as shown in the drawing and for the purpose described.

JOHN B. SCHMID.

Witnesses:

A. McLAVY,
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