

F. Parker,
Mortising Machine.

No 83,306.

Patented Oct. 20, 1868.

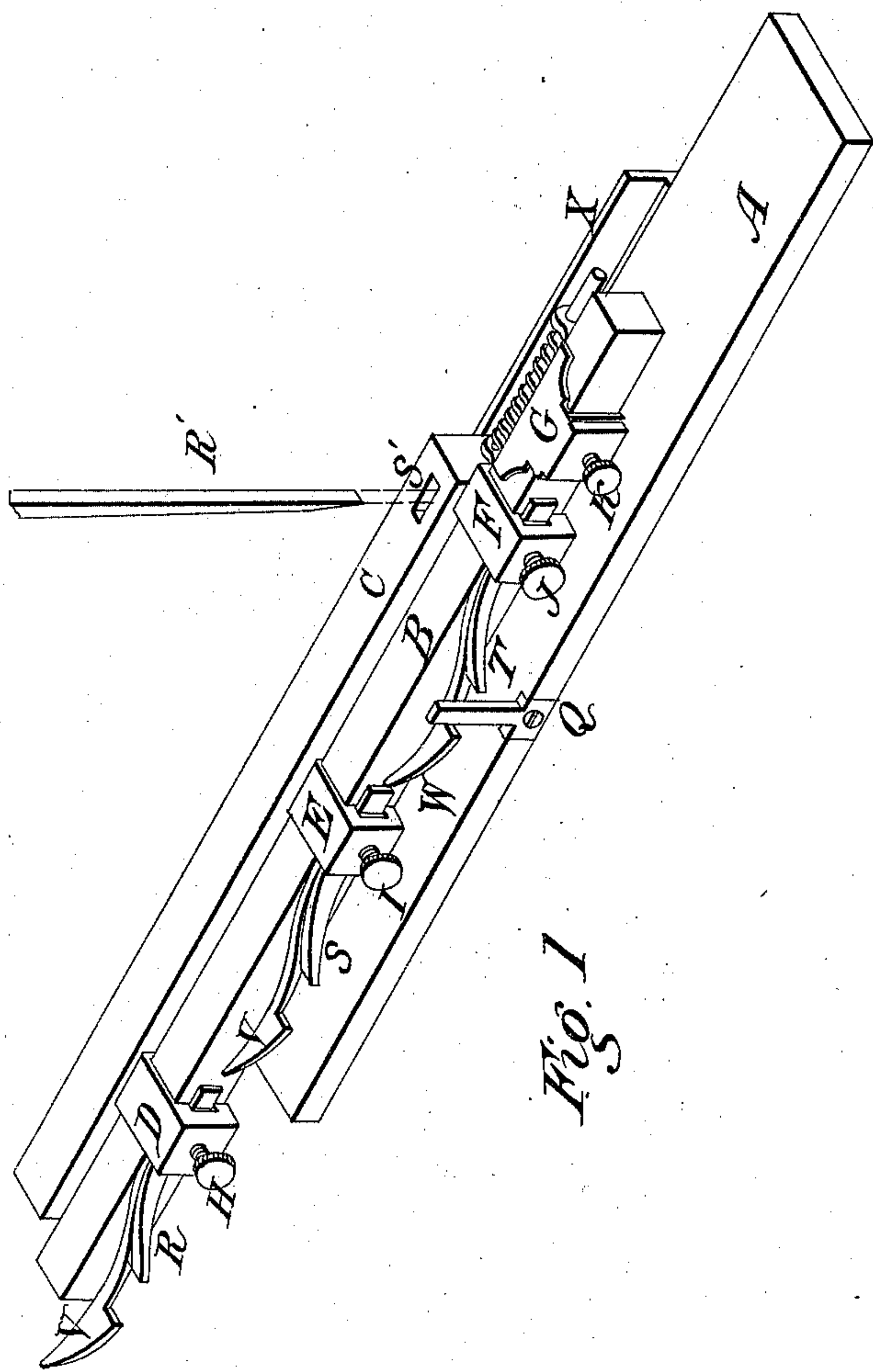


Fig. 1

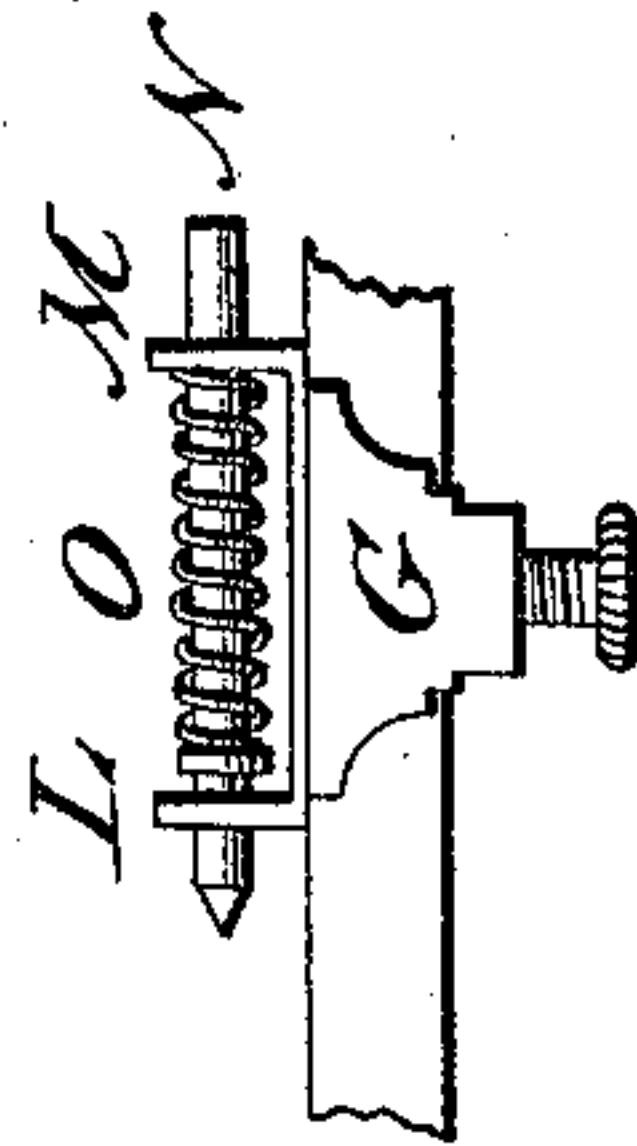


Fig. 2.

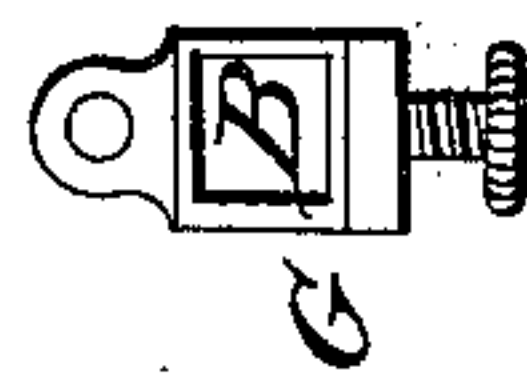


Fig. 3.

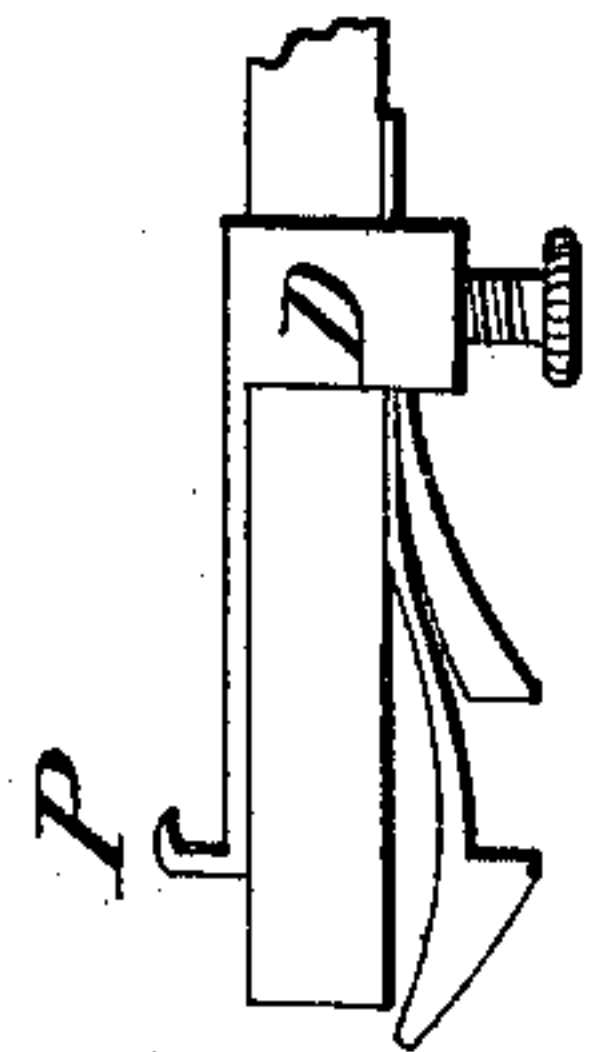


Fig. 4.

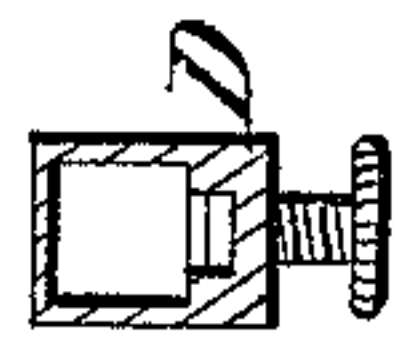


Fig. 5.

Witnesses:

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FRANCIS PARKER, OF PETALUMA, CALIFORNIA, ASSIGNOR TO HIMSELF AND C. W. ORMSBY, OF SAME PLACE.

Letters Patent No. 83,306, dated October 20, 1868.

IMPROVEMENT IN MORTISING-MACHINES.

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

To whom it may concern:

Be it known that I, FRANCIS PARKER, of the city of Petaluma, Sonoma county, California, have invented a new and improved Mode of Constructing Certain Parts or Portions of Mortising-Machines, to be hereinafter described; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, and to the letters of reference marked thereon.

The object of this invention is to save the time required to lay out or mark off the mortises on sash-blinds or doors, &c., preparatory to mortising the same, and relates to the peculiar construction of an adjustable gauge-rod, to be operated with the common mortising-machine; and in order that others may know how to make and use my invention, I will proceed to describe its construction and mode of operation.

Figure 1 is a perspective view of my machine.

A is the table of the mortising-machine, B the gauge-rod, and C is the piece to be mortised.

The slides D E F G are all adjustable on the rod B, and are secured to it by means of the set-screws H I J K.

The plan of the slide G is shown more distinctly in Figure 2, Figure 3 being the end view thereof.

On the back of said slide are two stands, L and M, supporting the pin N.

The spiral spring O operates the said pin in the direction of the pointed end, and drives the same into the piece C, to be mortised, and the said piece against the hook P, on the back of the slide D, of which Figure 4 is a plan, and Figure 5 an end view.

The piece C to be mortised is, by the means above described, held firmly to the gauge-rod B.

On the edge of the table A is a stand, Q.

The stops R S T are secured firmly to the respective slides D E F.

The stops U V W are adjustable, and may be moved farther from or nearer to the stops R S T, at the will of the operator, and are held in position by being inserted between the end of the set-screws H I J and the gauge-rod B.

The length of the mortise to be cut is the same as

the space between the stops, less the width of the stand Q, at the point of contact.

Now, for the purpose of more easily describing the operation of my machine, I have made a sketch of a chisel, R, just above the piece C, having a mortise, S, shown immediately beneath the same.

When the piece C to be mortised is secured firmly to the gauge-rod B, by the means and in the manner described above, the piece C, with the gauge-rod attached, is placed on the bed A of the mortising-machine, and held firmly against the guard X, on the back of the table A, with the stand Q about midway between the stops T and W. This will bring the chisel R very near the middle of the mortise. When this is done, the chisel R is put in motion, and the gauge-rod, with the piece C attached, moved gradually to the left until the stop T comes in contact with the stand Q. This limits the length of the mortise in that direction. The chisel is then turned half way round, as is common in all mortising-machines, (that is, the bevel to the right,) the chisel set in motion, the gauge-rod and piece C moved to the right until the stop W comes in contact with the left side of the stand Q, which limits the length of the mortise in this direction. I now have a mortise cut half way through the piece C. I now turn the edge of the piece C, which is at the bottom, and resting on the table, over, so as to bring it to occupy the same position as the top now does, with the stand Q between the stops W and T, and repeat the process above described, which cuts the mortise through the piece C.

Having above minutely described the construction and mode of operating my invention,

What I claim as new, and wish to secure by Letters Patent, is—

The gauge-rod B, with the slides D E F G, or their equivalents, together with the stops R S T U V W, when constructed substantially in the manner and used for the purpose above described.

FRANCIS PARKER.

Witnesses:

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T. B. BROWN.