(No Model.)

L. F. PARKS.

TENONING TOOL.

No. 386,653. Patented July 24, 1888.

Fig. 1.

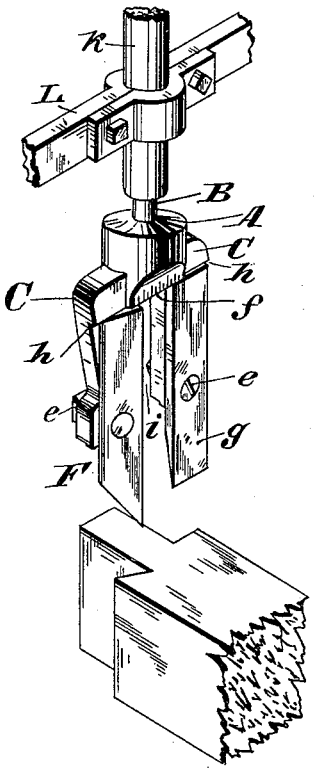

Fig. 2.

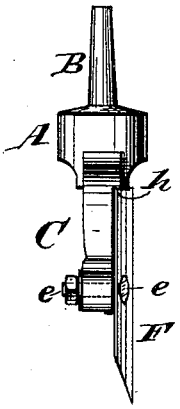

Fig. 3.

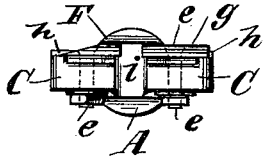

Fig. 5.

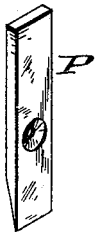

Fig. 6.

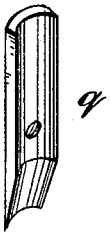

Fig. 4.

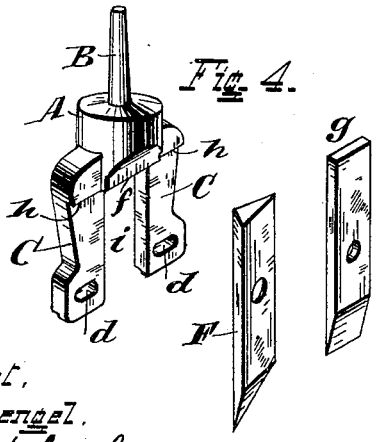

Fig. 7.

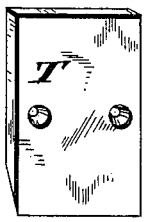

Fig. 9.

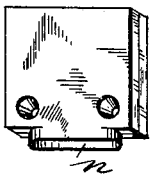

Fig. 10.

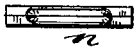

Fig. 8.

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Inventor,
Lewis F. Parks.

UNITED STATES PATENT OFFICE.

LEWIS F. PARKS, OF CINCINNATI, OHIO.

TENONING-TOOL.

SPECIFICATION forming part of Letters Patent No. 386,653, dated July 24, 1888.

Application filed November 12, 1885. Serial No. 182,518. (No model.)

To all whom it may concern:

Be it known that I, LEWIS F. PARKS, a citizen of the United States, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Tenoning-Tools to be Used in a Mortising-Machine; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved tenoning-tool with one flat bit and one bevel-face bit, and a tenon which it is in position to form, and slight sketch of a part of a machine by which it is to be operated. Fig. 2 is a side view of my improved tenoning-tool with one flat bit and one bevel-face bit. Fig. 3 is an end view of my improved tenoning-tool with one flat bit and one bevel-face bit. Fig. 4 is a perspective view showing the tool and bits separate. Figs. 5 and 6 are perspective views showing other forms of bits that may be used in my improved tenoning-tool. Fig. 7 is a perspective view showing another form of bit that may be used in my improved tenoning-tool for the purpose of squaring the ends of stuff on which a tenon is to be formed. Fig. 8 is an end view of said part Fig. 7. Fig. 9 is a perspective view showing a blind-slat chisel that may be used in my improved tenoning-tool for the purpose of making the groove for the blind-slats. Fig. 10 is an end view of said part Fig. 9.

The same letters refer to the same parts throughout the several views.

This invention relates to an improved tenoning-tool to be used in a mortising-machine and to form tenons by the same operation as in mortising on a mortising-machine that is provided with a vertically-reciprocating stock, in the lower end of which is a tapering hole or socket provided for the reception of chisels.

My improved tenoning-tool may be conveniently and efficiently used in any ordinary mortising-machine by simply removing the mortising-chisel and substituting my improved tool, when it may be used for forming tenons of different forms in tables, frames, window-sash, window-shutters, and the like, and it is suitable for general use in wood-working. The invention has for its object to provide a tool of this description, which shall possess superior advantages in point of simplicity, inexpensiveness, and general efficiency.

With these ends in view, the invention consists in the improved construction of the said tool, which will be hereinafter more fully described, and particularly pointed out in the claims.

In the drawings, A designates the body of my improved tenoning-tool, the upper end of which is provided with a tapered shank, B, and the sides of which are provided with wings C C. In the lower ends of said wings are horizontal slots *d d*, which are provided for the reception of bolts *e e*.

The bits F and *g*, the lower ends of which are sharpened, are horizontally adjustable on said wings C C, and can be retained after adjustment by said bolts *e e*, and at the upper end of said wings C C is a horizontal rest, *h*, provided for the upper end of the bits to rest against. The said wings C C are separated by a central vertical slot, *i*, at the upper end of which is a rule, *f*, cut in said body A, provided for the purpose of gaging the bits separately, leaving a space between equal to the thickness of tenon it is desired to form.

In the drawings, Fig. 1, I have shown a part of a stock, K, and a part of a bearing, L, which form a part of a machine by which my improved tenoning tool may be operated. In the lower end of said stock K is a tapering hole or socket.

The bits *g* and P may be used in my improved tenoning-tool for the purpose of forming tenons having square shoulders.

The bit F may be used in my improved tool for the purpose of forming tenons having bevel shoulders.

The bit *g* may be used in my improved tool for the purpose of forming tenons having concave shoulders.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of my invention will be readily understood. It is simple, inexpensive, efficient, and in every respect convenient.

When in operation, my improved tool, which is provided with two vertical bits horizontally adjustable, and sharpened at their lower ends, in passing downward cuts off a part of each side of the stuff of which a tenon is to be formed and leaves a space between uncut and thus forms the tenon.

I am aware that prior to my invention a blind-slat chisel has been made for the purpose of making the groove for blind-slats. I therefore do not claim the bit *w* (shown in Figs. 9 and 10) as my invention. I do not claim the bit T (shown in Figs. 7 and 8) as my invention. I do not claim the stock K nor the bearing L as my invention; but

What I do claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. A tenoning-tool consisting of a body, A, having a shank at one end and extensions C at the other, forming between them a central slot, *i*, for the tenon and adapted to receive bits, and formed with transverse slots *d* for lateral adjustment of the bits, substantially as set forth.

2. A tenoning-tool consisting in the combination of a solid body, A, capable of being connected to the stock of a suitable machine, having two wings, C, extending therefrom, adapted to hold adjustably the cutting-bits which bear against a rest, *h*, formed by an increase in the metal of the body near their upper ends, and a scale to gage the distance between the bits.

3. In a tenoning tool provided with wings C, forming between them a central slot, *i*, and having plane surfaces parallel with the line of motion of said tool, and adapted to receive and hold bits the cutting-edge of which may be of different shapes, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

LEWIS F. PARKS.

Witnesses:
C. T. ESTABROOK.
A. B. CURTIS.