

No. 609,366.

Patented Aug. 16, 1898.

W. POTTER.
MORTISING CHISEL.

(Application filed Dec. 27, 1897.)

(No Model.)

Fig 1.

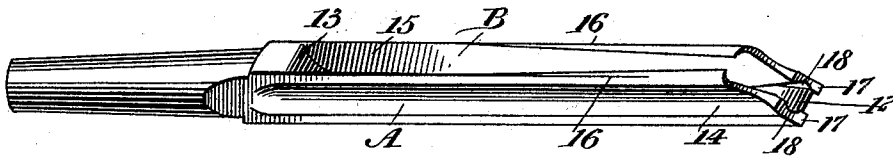


Fig 2.

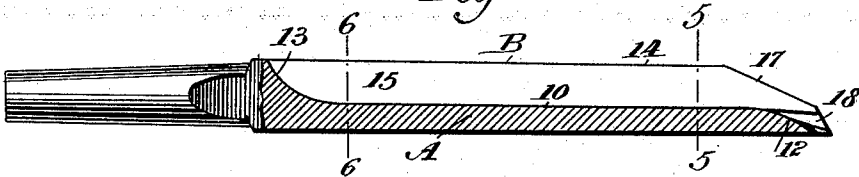


Fig 3.

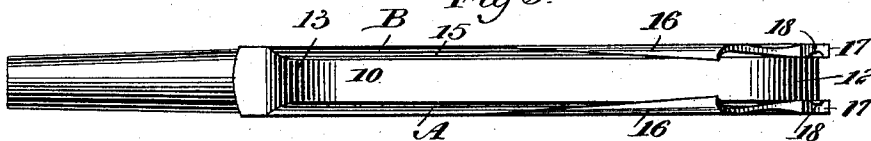


Fig 4.

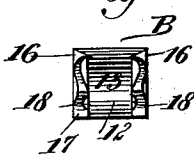


Fig 5.

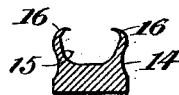


Fig 6.



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WITNESSES:

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MORTISING-CHISEL.

SPECIFICATION forming part of Letters Patent No. 609,366, dated August 16, 1898.

Application filed December 27, 1897. Serial No. 663,791. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM POTTER, a citizen of the United States, residing at New York city, in the county and State of New York, have invented a new and useful Mortising-Chisel, of which the following is a specification.

The object of my invention is to construct a mortising-chisel in such a manner that the chips, whether large or small, will have a free and ready passage from the cutting edge to the discharge-point, a predetermined distance from said edge.

Another object of the invention is to provide a means whereby the chips will be confined to the chisel for a certain distance from the cutting-point, yet be free to move rearward to their point of exit.

A further object of the invention is to construct a chisel so that the friction occasioned by the cutting of the chips will be minimized.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the chisel.

Fig. 2 is a longitudinal vertical section through the chisel. Fig. 3 is a plan view of the chisel. Fig. 4 is a front elevation. Fig. 5 is a section on the line 5 5 of Fig. 2. Fig. 6 is a section on the line 6 6 of Fig. 2.

The body A of the chisel is provided with a longitudinal plane floor 10, constituting the bottom of the chip-receiving channel B. The floor 10 is of equal width throughout its entire length, and its forward end is inclined or beveled, terminating at the plane of the under face of the chisel in a comparatively sharp edge 12. The floor 10 is given a gentle slope upward from the cutting edge of the chisel for a short distance only and then runs

parallel with the under face of the chisel to the rear end wall 13 of the channel B, which is upwardly curved, as shown in Fig. 2.

The side walls 14 of the chisel may be given a concave or any desired exterior shape to avoid friction, while interiorly the side walls of the chisel are beveled in opposite direction from the floor 10, as shown at 15 in the drawings.

At the cutting-point of the chisel the side walls 14 are curved inward over the floor to a predetermined extent, forming thereby flanges 16. These flanges extend a predetermined distance rearward and then lose themselves in the side walls. The flanges prevent the chips from being forced outward at the cutting-point of the chisel, yet the flaring walls of the chip-receiving channel B will admit of the chips moving freely rearward until they are clear of the flanges 16, whereupon they find a ready exit from the said channel. The front end portions 17 of the chisel are fluted, as shown at 18 in the drawings, and constitute the cutting edges, together with the edge 12 at the forward end of the floor 10; but the fluted cutting edges project beyond the edge 12 of the floor 10, the edges being fluted to reduce the friction and direct the chips into the chip-receiving channel B.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A mortising-chisel, the chip-receiving channel whereof is provided with a floor running parallel with the under face of the chisel from the rear end wall to the point of inclination of the cutting edge, side walls having their exterior faces concave or otherwise hollowed out to avoid friction, and fluted cutting edges, as and for the purposes specified.

WILLIAM POTTER.

Witnesses:

WILLIAM C. RELYEA,
WARD BROWER.