No. 798,688. PATENTED SEPT. 5, 1905.

K. MAROTZKA.

TOOL.

APPLICATION FILED OCT. 12, 1904.

Fig. 1.

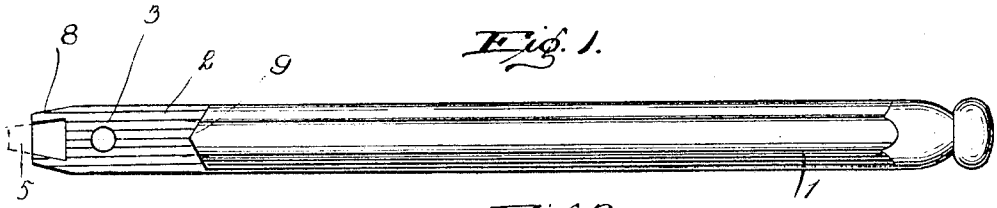


Fig. 2.

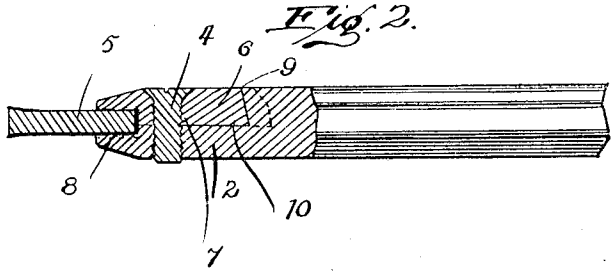


Fig. 3.

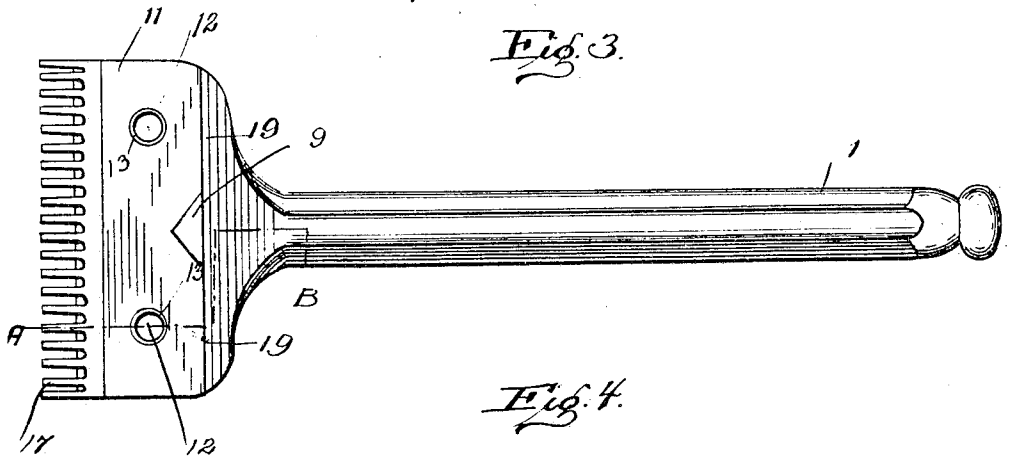


Fig. 4.

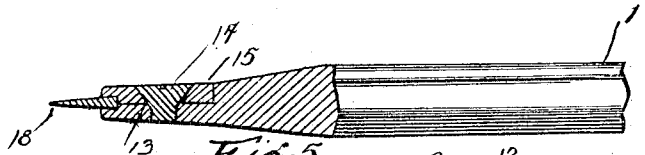
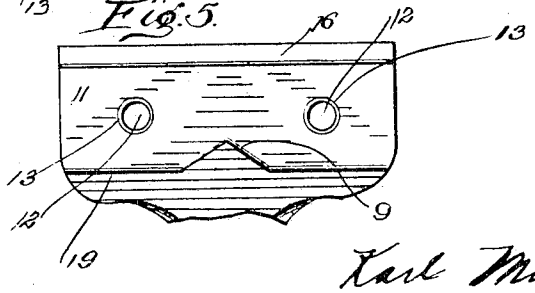


Fig. 5.



Witnesses

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TOOL.

No. 798,688. Specification of Letters Patent. Patented Sept. 5, 1905.

Application filed October 12, 1904. Serial No. 228,209.

To all whom it may concern:

Be it known that I, KARL MAROTZKA, a citizen of the United States, residing at Youngstown, in the county of Mahoning and State of Ohio, have invented certain new and useful Improvements in Tools; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in tools, and more particularly to stone-chisels.

The object of the present invention is to improve the construction of a tool which is provided with means for clamping a removable cutter to an integral jaw which is formed upon the handle.

Another object of the invention is the production of a tool which is simple in construction and comprises a minimum number of parts.

A still further object of the invention is the provision of means for detachably securing cutting members in an assembled position with the handle portion of the tool.

With these and other objects in view the invention consists in certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the claims hereto appended.

In the drawings, Figure 1 is a plan view of a tool constructed in accordance with the present invention, the removable clamping-jaw being detached therefrom. Fig. 2 is a fragmentary view, in side elevation, of the tool depicted in Fig. 1, partly shown in vertical longitudinal section. Fig. 3 is a plan view of an embodiment of the present invention, the removable clamping jaw or plate being detached therefrom and showing a cutter positioned thereon. Fig. 4 is a sectional view taken on line A B of Fig. 3 and showing the removable jaw secured thereto. Fig. 5 is a fragmentary plan view of the embodiment shown in Fig. 3 with the cutter removed.

Referring to the drawings by reference-numerals, 1 designates the handles of the different embodiments, while referring more particularly to Figs. 1 and 2, 2 designates the integral jaw formed upon the handle 1. The jaw or cutting-point receiving end is formed with a flat inner surface, said jaw 2 having a screw-threaded apertured portion 3, which is provided for the purpose of receiving screw 4 when it is desired to retain the cutting-point, as 5, in a fixed position with jaw 2 by means of the removable clamping jaw or plate 6. The removable clamping jaw or plate 6 is provided with a registering screw-threaded apertured portion 7 of the same diameter as apertured portion 3. A recessed portion 8 is formed upon the outer end of each of jaws 2 and 6, producing a dovetailed socket within which the cutting points or members 5 are positioned for securing the same in a fixed position with the jaws and handle of the tool. For the purpose of forming a positive lock, preventing longitudinal play of the removable member 6, the handle 1 upon its movable jaw-engaging edge is provided with a double or V-shaped inwardly-beveled surface 9, which engages a V-shaped outwardly-beveled recessed portion formed upon the removable clamping jaw or member 6. Besides positively preventing longitudinal movement of the jaw 6 by means of the angular-surfaced portion 9 of the handle 1 an inclined edge 10 is formed for the purpose of preventing lateral play of the removable jaw on the angular jaw-engaging portion 9 of the tool, said edge being formed at an angle to the horizontal plane in which the flat inner surface of the integral jaw is formed. The beveled inclined jaw or removable plate-engaging edges positively prevents said jaw having lateral or longitudinal play.

Referring to Figs. 3 and 4, the integral jaw 11 is formed by widening the handle 1 at one of its ends. The jaw 11 is provided with screw-threaded portions 12, which are beveled at 13 for the purpose of receiving a portion of the head of screws 14, positioned in screw-threaded apertured portions 12. A removable plate or clamping-jaw 15 is positioned upon the integral jaw 11 and is retained in position thereon by means of the screws 14. It will be obvious upon referring to Fig. 4 that by means of the peculiar beveling of the integral as well as the removable jaw that the screws lie flush with the outer surface of said removable plate or jaw. Recesses 16 are formed upon each of the jaws, producing a dovetailed portion in the assembled jaws in which removable cutters may be positioned, as in Fig. 3 the toothed cutter 17 and in Fig. 4 a solid cutter 18. For the purpose of fitting the dovetailed portion of the assembled jaws said cutters will necessarily be constructed tapering from their back edge to their cutting edge. The removable cutters are exceedingly simple in con-

struction, although producing a durable and efficient member for assembling with the jaws and handle of a completed tool. It will be apparent from the foregoing description that the removable jaw or clamping member is provided with beveled apertures which register with the beveled and screw-threaded apertured portions formed upon the integral jaw or widened extension of the handle 1.

The approximately vertical edge 19 of the tool (illustrated in Figs. 3 to 5) is provided with a similarly-constructed central, beveled, or substantially V-shaped inclined portion 9, as depicted in Figs. 1 and 2. If it is desired, the double beveled or V-shaped edge 9 may extend the entire width of the integral jaw, (illustrated in Figs. 3 to 5,) as is the case with the structure depicted in Fig. 1. The edge 19 is formed upon opposite sides of the portion 9 in the same transverse plane.

While I have described in the foregoing description and depicted in the accompanying drawings the preferred construction of my invention, it will be obvious to one versed in the art to which this invention relates that certain alterations, modifications, and changes may be made, and I therefore reserve the right to make such alterations and modifications as shall fairly fall within the spirit and scope of the present invention.

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

1. In a device of the character described, the combination of a handle, a jaw integral with said handle, an inwardly, beveled, V-shaped portion formed upon said handle contiguous to said jaw, a removable jaw provided with an outwardly-beveled portion positioned upon said integral jaw, and means for securing said jaws in an assembled position.

2. A device of the character described, comprising a handle, a jaw integral with said handle, said handle provided with a central, inwardly-beveled, V-shaped portion, a removable jaw provided with a central, outwardly-beveled, V-shaped recess positioned upon said integral jaw and in engagement with said similar portion of the handle, and means for securing said jaws in an assembled position.

3. In a device of the character described, the combination of a handle, a jaw integral with said handle, said handle provided with a central, inwardly-beveled, V-shaped extension, said handle provided with beveled portions extending in the same transverse plane and upon opposite sides of the V-shaped portion, a removable jaw provided with an outwardly-beveled, V-shaped recess, and edge portions upon each side of said V-shaped recess and formed in the same transverse plane.

4. In a device of the character described, the combination of a handle, a jaw integral with said handle, said handle and jaw provided with an integral, central V-shaped portion and with vertical jaw-engaging surfaces extending from said V-shaped portion upon opposite sides thereof, said jaw-engaging surfaces formed in the same transverse plane, a removable jaw provided with a central V-shaped recess and with vertical, beveled surfaces, said beveled surfaces and V-shaped recess adapted to be secured against the similarly-constructed surfaces of the handle and its integral jaw, and means for securing said jaws together.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

KARL MAROTZKA.

Witnesses:
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